

State of Alabama

STATEWIDE OCCUPATIONAL PROJECTIONS

2019-2021 Short-Term Employment



Introduction

The tables in this publication were prepared to assist in the planning and developing of educational and training programs to meet future employment needs and to aid in the guidance of young people making career choices.

In an effort to provide planners with beneficial information, the Department of Labor developed the Occupational Employment Statistics (OES) program. This is a Federal-State cooperative program involving the Employment and Training Administration, the Bureau of Labor Statistics, and various state agencies. The projected employment needs presented in this publication represent one aspect of the program, the National-State, Industry-Occupation Employment Matrix.

The projections in this publication cover the state of Alabama. In developing the employment projections, the following assumptions concerning economic conditions were made:

The industry employment in the state of Alabama will increase by 2.5 percent over the projection period which equates to an average rate of 1.24 percent per year.

Major events, such as a widespread, long-lasting energy shortage or a war, will not significantly alter the industrial structure of the economy or the rate of economic growth.

Current technological, scientific, and social trends such as values placed on work, education, income and leisure will continue.

This publication, based on the total employment concept, includes wage and salary employment, self-employed, the unpaid family members of a family business, agricultural workers, and those employed in private households as domestic workers.

Because of the limitations inherent in any set of occupational projections, it is important to emphasize that the figures in the tables be viewed more as indicators of relative magnitude and probable direction than as exact estimates of occupational demand.

Highlights

The number of Alabama workers in various occupations is expected to increase almost 55,000 jobs for a total of 2.25 million workers by 2021. Attaining this employment level should include just over 98,000 openings from exits, almost 159,000 from transfers, and slightly over 27,000 from growth annually. Annual total openings should be just over 284,000. The total number of projected workers by major occupations include:

- 693,940 employees in various professional occupations;
- 613,020 employees in service and sales occupations;
- 316,160 employees in office and administrative support occupations;
- 94,140 employees in construction and extraction occupations;
- 34,550 employees in farming, fishing, and forestry occupations;
- 501,160 employees in installation and maintenance, production, and transportation occupations.

The University of Alabama Center for Business and Economic Research (CBER) optimistically predicts that almost all major occupational groups will see positive growth over the two-year period.

Manufacturing is expected to gain approximately 5,000 jobs in durable goods during the projected period. Nondurable goods are projected to have a loss of approximately 2,400 jobs. Management of Companies and Enterprises are expected to show the largest percent gain (6.84%) during this time period.

Healthcare is predicted to gain approximately 9,500 workers by 2021. Professional, Scientific, and Technical Services is predicted to gain 7,200 workers during the same time period. Additionally, Accommodation and Food Services is expected to grow by almost 5,200 workers. Educational Services is expected to see growth of almost 5,000 workers as well. Construction is expected to grow almost 4,000 jobs during this projected period.

User's Guide

What measures are the best indicators of occupational job demand?

1. The total average annual job openings.
2. Employment change expressed as a percent.

Total average annual job openings indicates the magnitude of the expected labor demand, while the percent change in employment shows the direction in which the employment level for the occupation is moving: rising, shrinking, or remaining at the current level.

What generates job openings?

1. Employment growth (new jobs).
2. Occupational separations – leaving the labor force and inter-occupational transfers.

What causes employment growth?

For most occupations, industrial growth has the single greatest influence on the growth in the occupation's employment. Industrial growth occurs when the demand for goods or services rises and, in turn, the demand for workers to produce those goods or services also rises. Technological change can raise the demand for some skills while eliminating the need for others. While this shift is taking place, demand in the industry as a whole may be increasing or decreasing. New ways of doing business, such as self-service, out-sourcing, 24-hour operations or employee leasing can alter the demand for labor.

What is the impact of labor force separations?

When a person leaves the labor force (death, moving out of state, retirement, etc.), a job opening occurs when the departing worker's position is vacated.

Do workers tend to leave some occupations more than others?

Every occupation has a different separation rate. More desirable occupations as well as those which require extensive education or training tend to have lower separation rates.

What factors determine the number of job openings for an occupation?

1. The overall number of people employed in an occupation.
2. The occupation's separation rate.
3. The rate of employment growth or decline for the occupation.

Which factor is most important?

The number of people employed in the occupation and the separation rate tend to be more important determinants of the number of job openings than the occupation's growth rate.

What is the best way to compare one occupation with another?

Examine the total average annual job openings, and openings due to growth. A large number of job openings increases the chances of finding a job in the occupation. Also, examine the percent change in employment. A high percent increase in employment in an occupation that employs relatively few workers indicates entry into the occupation may be difficult, however, opportunities for advancement may be excellent.

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CBER Industry Trends for Alabama

**CBER Projected Growth Rates for 2019 to 2021 Applied to BLS 2019 Wage and Salary Employment
by Major Industry Group with 3-Digit NAICS Breakouts for Manufacturing**

NAICS	Industry Title	Employment		Net Change	Percent Change	Annual Growth Rate
		2019	2021			
	Total	2,198,093	2,253,154	55,061	2.50	1.24
	Total Wage and Salary	2,030,391	2,082,933	52,542	2.59	1.29
	Goods-Producing	370,267	376,894	6,627	1.79	0.89
21	Natural Resources and Mining	10,133	10,140	7	0.07	0.03
23	Construction	91,569	95,523	3,954	4.32	2.14
31-33	Manufacturing	268,565	271,231	2,666	0.99	0.50
	Durable Goods	174,765	179,835	5,070	2.90	1.44
	Nondurable Goods	93,800	91,396	-2,404	-2.56	-1.29
	Services-Providing	1,660,124	1,706,039	45,915	2.77	1.37
	Trade, Transportation, and Utilities	391,230	395,712	4,482	1.15	0.57
42	Wholesale Trade	74,240	75,505	1,265	1.70	0.85
44-45	Retail Trade	231,006	232,967	1,961	0.85	0.42
48-49	Transportation and Warehousing	72,300	73,422	1,122	1.55	0.77
22	Utilities	13,684	13,818	134	0.98	0.49
51	Information	21,334	21,636	302	1.42	0.71
52	Finance and Insurance	72,615	74,740	2,125	2.93	1.45
53	Real Estate and Rental and Leasing	23,541	24,226	685	2.91	1.44
54	Professional, Scientific, and Technical Services	106,253	113,502	7,249	6.82	3.35
55	Management of Companies and Enterprises	15,814	16,896	1,082	6.84	3.36
56	Administrative and Support and Waste Management and Remediation Services	126,648	135,343	8,695	6.87	3.38
61	Educational Services	162,388	167,218	4,830	2.97	1.48
62	Health Care and Social Assistance	267,016	276,548	9,532	3.57	1.77
71	Arts, Entertainment, and Recreation	21,106	21,634	528	2.50	1.24
72	Accommodation and Food Services	186,528	191,714	5,186	2.78	1.38
81	Other Services (Except Government)	100,430	101,309	879	0.88	0.44
90	Government	165,221	165,561	340	0.21	0.10
91	Federal	38,937	38,381	-556	-1.43	-0.72
92	State	37,159	37,129	-30	-0.08	-0.04
93	Local	89,125	90,051	926	1.04	0.52
	All Other	167,702	170,221	2,519	1.50	0.75

Source: Projected industry growth rates are furnished by The University of Alabama, Center for Business and Economic Research. Based and projected employment are developed by the Alabama Department of Labor, Labor Market Information Division for utilization in occupational projections. Employment for education is shown in educational services industry, employment for government hospitals is shown in the healthcare and social assistance industries, and post office employment is shown in the transportation and warehousing industries.

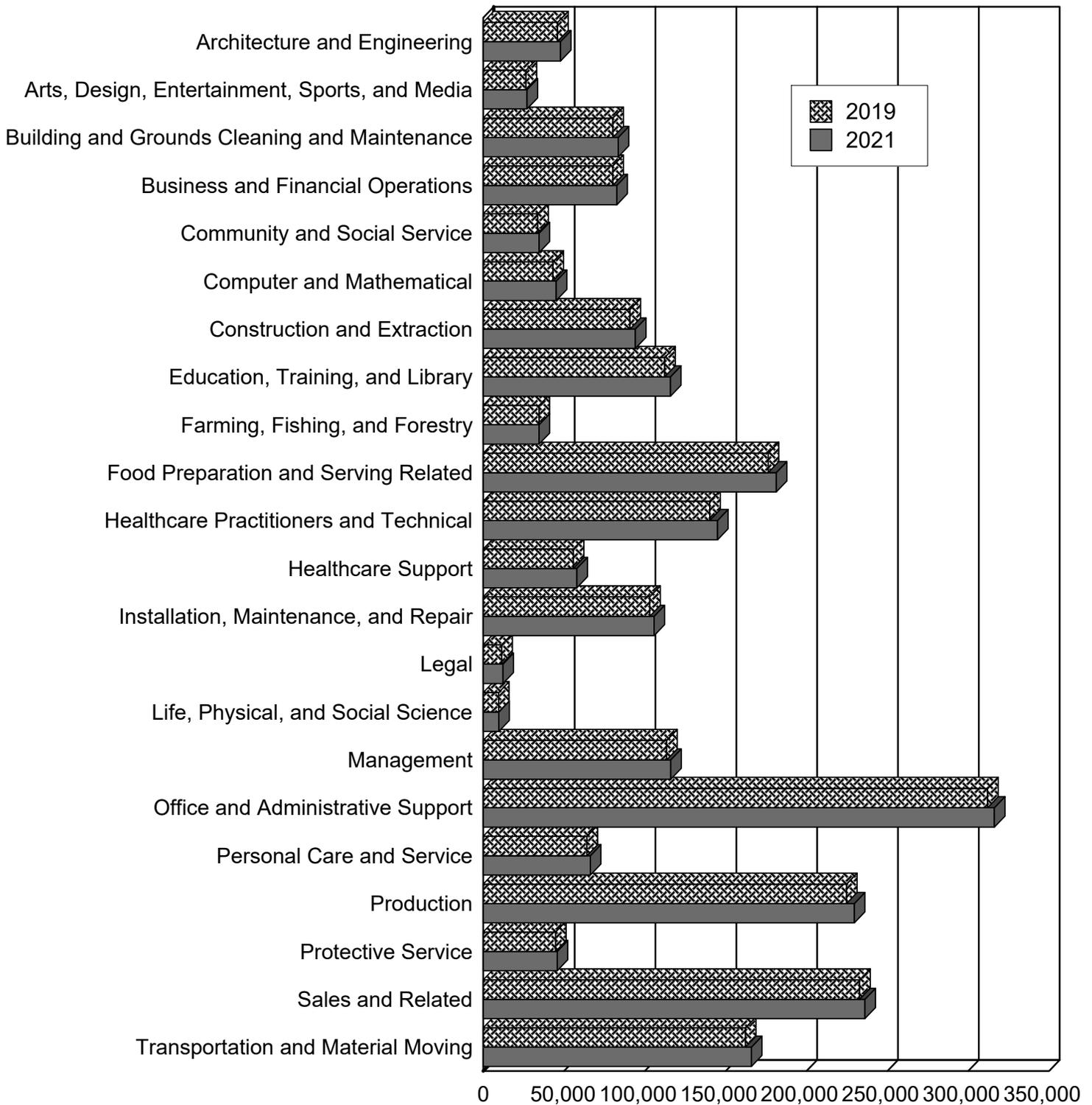
**Alabama Occupational Projections 2019-2021
by Major Occupational Group**

OCC	Occupations	Employment		Net Change	Percent Change	Average Annual	
		2019	2021			Growth %	Openings
00-0000	Total, All Occupations	2,198,090	2,252,990	54,890	2.50	1.25	284,240
11-0000	Management Occupations	113,510	116,010	2,500	2.21	1.11	11,230
13-0000	Business and Financial Operations Occupations	80,170	82,670	2,500	3.12	1.56	8,900
15-0000	Computer and Mathematical Occupations	43,130	45,150	2,020	4.69	2.35	4,225
17-0000	Architecture and Engineering Occupations	46,030	47,800	1,770	3.84	1.92	4,460
19-0000	Life, Physical, and Social Science Occupations	9,540	9,700	160	1.63	0.82	1,045
21-0000	Community and Social Service Occupations	33,800	34,570	770	2.28	1.14	4,065
23-0000	Legal Occupations	11,540	12,220	690	5.96	2.98	1,135
25-0000	Education, Training, and Library Occupations	112,270	115,830	3,570	3.18	1.59	11,850
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	26,530	27,110	580	2.19	1.10	3,260
29-0000	Healthcare Practitioners and Technical Occupations	140,130	144,940	4,810	3.43	1.72	10,545
31-0000	Healthcare Support Occupations	55,740	57,940	2,200	3.95	1.98	7,560
33-0000	Protective Service Occupations	44,780	45,790	1,000	2.24	1.12	5,155
35-0000	Food Preparation and Serving Related Occupations	176,290	181,280	5,000	2.83	1.42	33,125
37-0000	Building and Grounds Cleaning and Maintenance Occupations	80,180	83,570	3,400	4.24	2.12	12,310
39-0000	Personal Care and Service Occupations	64,250	66,290	2,040	3.18	1.59	10,705
41-0000	Sales and Related Occupations	232,870	236,090	3,230	1.38	0.69	35,540
43-0000	Office and Administrative Support Occupations	312,010	316,160	4,150	1.33	0.67	38,820
45-0000	Farming, Fishing, and Forestry Occupations	34,580	34,550	-20	-0.07	-0.04	5,570
47-0000	Construction and Extraction Occupations	90,800	94,140	3,340	3.68	1.84	11,985
49-0000	Installation, Maintenance, and Repair Occupations	103,050	105,720	2,670	2.59	1.30	11,505
51-0000	Production Occupations	224,730	229,570	4,840	2.15	1.08	28,970
53-0000	Transportation and Material Moving Occupations	162,190	165,870	3,690	2.27	1.14	22,290

Data provided by the Alabama Department of Labor, Labor Market Information Division in cooperation with the Center for Business and Economic Research (CBER) of the University of Alabama, The Projections Managing Partnership, and the U.S. Bureau of Labor Statistics. Totals in some occupational groups may not add due to exclusion of sub-groups and/or individual occupations with employment of less than 10 in the base (2019) and projected (2021) years or where publication of the occupation would violate confidentiality.

*** The data for these occupations are confidential according to standards provided by the U.S. Bureau of Labor Statistics.

**Alabama Occupational Projections 2019-2021
Major Occupational Group Chart**

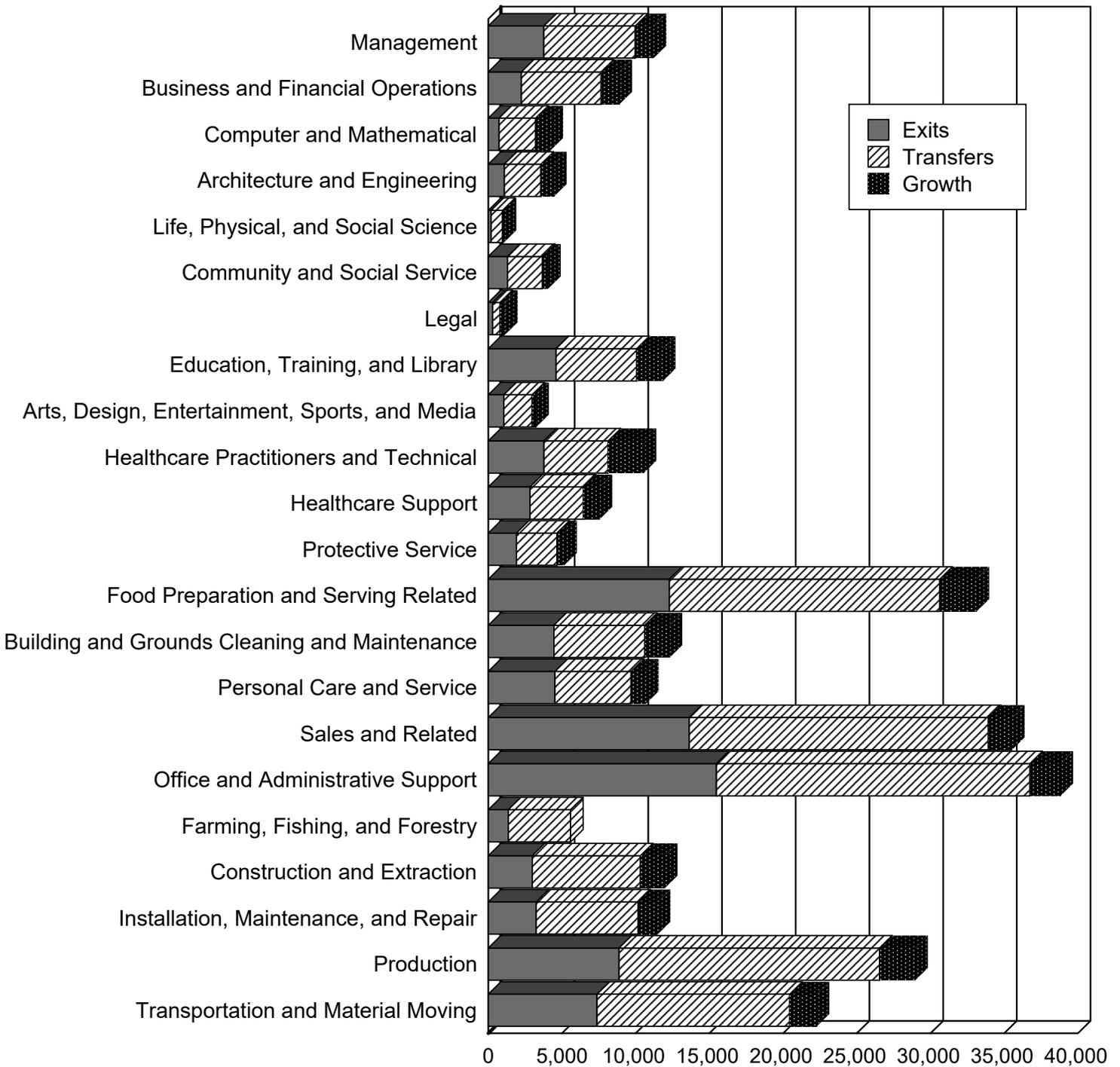


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1. Employment is rounded to the nearest 10. 2. Average Annual Growth is compounded. 3. Openings are rounded to the nearest 5.

**Alabama Employment Projections 2019-2021
Average Annual Openings by Major Occupational Group Chart**

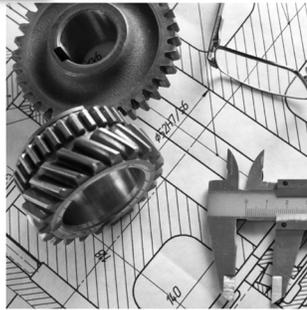
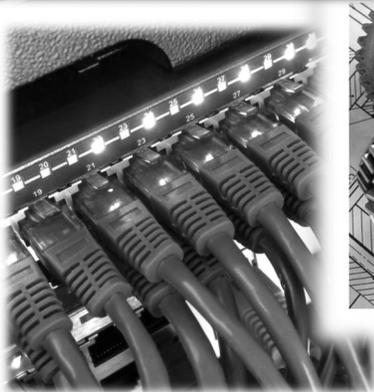


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Occupational Overview



**Alabama 2019-2021
40 High Demand Occupations**

SOC	Occupations	Employment		Percent Change	Average Annual		
		2019	2021		Growth	Openings	Salary (\$)
15-1132	Software Developers, Applications	6,130	6,620	8.09	4.05	695	93,360
51-9198	Helpers--Production Workers	17,650	18,870	6.93	3.47	3,305	24,320
37-3011	Landscaping and Groundskeeping Workers	18,510	19,390	4.77	2.39	2,895	24,800
35-2014	Cooks, Restaurant	16,380	17,180	4.90	2.45	2,775	23,580
15-1151	Computer User Support Specialists	6,740	7,080	5.14	2.57	740	46,010
13-1111	Management Analysts	5,860	6,180	5.37	2.69	725	84,400
13-2011	Accountants and Auditors	17,780	18,550	4.33	2.17	2,075	63,670
31-9092	Medical Assistants	7,730	8,110	4.94	2.47	1,065	27,980
29-1141	Registered Nurses	52,070	54,050	3.80	1.90	3,825	57,930
11-3031	Financial Managers	5,360	5,670	5.84	2.92	580	114,980
15-1121	Computer Systems Analysts	4,470	4,710	5.35	2.68	450	81,160
15-1133	Software Developers, Systems Software	4,480	4,710	5.23	2.62	440	99,700
47-2061	Construction Laborers	11,450	11,940	4.23	2.12	1,545	30,190
17-2011	Aerospace Engineers	4,750	4,990	5.03	2.52	435	116,480
13-1161	Market Research Analysts and Marketing Specialists	3,390	3,590	5.97	2.99	455	53,530
43-6013	Medical Secretaries	5,450	5,690	4.46	2.23	745	32,080
17-2071	Electrical Engineers	4,680	4,920	5.02	2.51	435	94,320
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	6,290	6,590	4.72	2.36	780	39,730
41-3021	Insurance Sales Agents	6,980	7,250	3.75	1.88	825	57,610
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	44,170	45,610	3.26	1.63	6,955	25,060
11-1021	General and Operations Managers	29,040	30,000	3.29	1.65	3,040	100,980
31-2021	Physical Therapist Assistants	2,160	2,290	6.13	3.07	340	57,920
23-1011	Lawyers	6,850	7,300	6.45	3.23	560	100,530
47-2111	Electricians	10,340	10,720	3.71	1.86	1,410	45,930
47-2031	Carpenters	11,850	12,270	3.54	1.77	1,460	39,040
17-2112	Industrial Engineers	5,140	5,330	3.78	1.89	455	84,540
47-2152	Plumbers, Pipefitters, and Steamfitters	5,880	6,120	4.22	2.11	790	44,880
15-1122	Information Security Analysts	1,040	1,150	10.27	5.14	130	89,410
17-2141	Mechanical Engineers	3,650	3,820	4.74	2.37	340	85,580
49-9041	Industrial Machinery Mechanics	11,220	11,650	3.82	1.91	1,260	48,450
31-9097	Phlebotomists	2,410	2,560	6.01	3.01	335	30,610
11-3021	Computer and Information Systems Managers	3,540	3,710	4.74	2.37	365	119,120
13-1151	Training and Development Specialists	2,810	2,930	4.42	2.21	370	57,110
11-9021	Construction Managers	5,380	5,610	4.32	2.16	510	86,350
15-1142	Network and Computer Systems Administrators	4,770	4,930	3.52	1.76	425	72,640
37-2021	Pest Control Workers	2,220	2,370	6.62	3.31	390	33,190
43-4051	Customer Service Representatives	32,450	33,270	2.52	1.26	4,785	30,940
11-9111	Medical and Health Services Managers	3,370	3,510	4.00	2.00	340	90,500
29-1171	Nurse Practitioners	3,060	3,240	5.75	2.88	255	95,010
49-9071	Maintenance and Repair Workers, General	16,750	17,200	2.67	1.34	1,870	35,700

Note: Wage data provided by the Occupational Employment Statistics (OES) unit in partnership with the Bureau of Labor Statistics, May 2019 release.

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Alabama Selected Fast Growing Occupations 2019-2021

SOC	Occupations	Employment		Percent Change	Average Annual	
		2019	2021		Growth	Openings
13-2071	Credit Counselors	80	90	7.23	3.62	10
13-2082	Tax Preparers	770	830	7.39	3.70	120
15-1122	Information Security Analysts	1,040	1,150	10.27	5.14	130
15-1132	Software Developers, Applications	6,130	6,620	8.09	4.05	695
15-2011	Actuaries	60	70	6.45	3.23	5
15-2031	Operations Research Analysts	750	800	6.52	3.26	75
17-3021	Aerospace Engineering and Operations Technicians	210	220	7.69	3.85	30
17-3026	Industrial Engineering Technicians	1,170	1,250	6.68	3.34	155
23-1011	Lawyers	6,850	7,300	6.45	3.23	560
23-2011	Paralegals and Legal Assistants	2,980	3,190	7.05	3.53	430
29-1071	Physician Assistants	750	800	6.80	3.40	70
29-1127	Speech-Language Pathologists	1,730	1,860	7.04	3.52	155
29-1131	Veterinarians	1,060	1,140	7.33	3.67	80
29-2056	Veterinary Technologists and Technicians	1,050	1,130	7.69	3.85	130
31-2011	Occupational Therapy Assistants	560	600	7.90	3.95	85
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	1,090	1,170	7.43	3.72	225
33-9021	Private Detectives and Investigators	230	250	6.96	3.48	30
37-2021	Pest Control Workers	2,220	2,370	6.62	3.31	390
41-3041	Travel Agents	410	440	6.52	3.26	70
43-9111	Statistical Assistants	90	90	6.82	3.41	15
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	360	380	6.74	3.37	50
49-2098	Security and Fire Alarm Systems Installers	970	1,030	6.61	3.31	150
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	640	690	6.84	3.42	90
51-9198	Helpers--Production Workers	17,650	18,870	6.93	3.47	3,305
53-6061	Transportation Attendants, Except Flight Attendants	***	***	8.00	4.00	5

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Alabama Selected Declining Occupations 2019-2021

SOC	Occupations	Employment		Net Change	Percent Change
		2019	2021		
51-9011	Chemical Equipment Operators and Tenders	2,830	2,490	-340	-12.12
51-6031	Sewing Machine Operators	3,200	3,030	-170	-5.43
51-6064	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	2,220	2,070	-150	-6.80
51-8091	Chemical Plant and System Operators	830	710	-120	-14.29
43-5052	Postal Service Mail Carriers	5,250	5,150	-100	-2.04
51-5112	Printing Press Operators	2,340	2,260	-80	-3.38
43-6011	Executive Secretaries and Executive Administrative Assistants	4,180	4,110	-70	-1.70
51-2041	Structural Metal Fabricators and Fitters	2,660	2,600	-60	-2.33
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	2,390	2,330	-60	-2.47
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	880	830	-50	-6.23
43-2011	Switchboard Operators, Including Answering Service	1,350	1,310	-40	-2.82
51-5113	Print Binding and Finishing Workers	300	260	-40	-12.12
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	360	320	-40	-10.77
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	1,020	990	-30	-3.05
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	410	380	-30	-6.67
19-2031	Chemists	600	580	-20	-4.16
29-2054	Respiratory Therapy Technicians	240	220	-20	-9.50
51-2021	Coil Winders, Tapers, and Finishers	400	380	-20	-5.24
51-5111	Prepress Technicians and Workers	270	250	-20	-8.52
51-6061	Textile Bleaching and Dyeing Machine Operators and Tenders	330	310	-20	-6.10

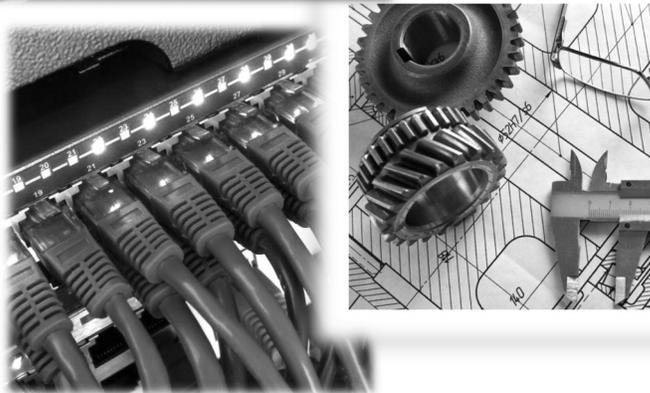
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Occupational Detail

Employment and Annual Average Job Openings by Occupation
Base Year 2019 and Projected Year 2021



Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
00-0000	Total, All Occupations	2,198,090	2,252,990	1.25	284,240	98,100	158,700	27,445
11-0000	Management Occupations	113,510	116,010	1.11	11,230	3,775	6,200	1,250
11-1000	Top Executives	32,220	33,210	1.53	3,290	700	2,095	490
11-1011	Chief Executives	1,910	1,920	0.24	140	50	85	5
11-1021	General and Operations Managers	29,040	30,000	1.65	3,040	620	1,945	480
11-1031	Legislators	1,270	1,290	0.79	105	30	65	10
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	3,970	4,070	1.30	405	80	270	50
11-2011	Advertising and Promotions Managers	70	70	0.73	5	0	5	0
11-2021	Marketing Managers	610	630	1.99	65	10	40	10
11-2022	Sales Managers	2,780	2,840	1.14	280	55	190	30
11-2031	Public Relations and Fundraising Managers	520	530	1.46	55	10	35	10
11-3000	Operations Specialties Managers	16,220	16,860	1.97	1,610	350	940	320
11-3011	Administrative Services Managers	830	850	1.33	80	25	45	10
11-3021	Computer and Information Systems Managers	3,540	3,710	2.37	365	60	220	85
11-3031	Financial Managers	5,360	5,670	2.92	580	120	305	155
11-3051	Industrial Production Managers	3,220	3,270	0.80	260	70	165	25
11-3061	Purchasing Managers	950	980	1.16	90	25	60	10
11-3071	Transportation, Storage, and Distribution Managers	650	660	0.93	55	15	35	5
11-3111	Compensation and Benefits Managers	100	100	1.55	10	0	5	0
11-3121	Human Resources Managers	1,420	1,460	1.48	140	30	90	20
11-3131	Training and Development Managers	170	170	1.80	20	5	10	5
11-9000	Other Management Occupations	61,100	61,880	0.64	5,925	2,640	2,895	390
11-9013	Farmers, Ranchers, and Other Agricultural Managers	29,540	29,380	-0.27	2,845	1,830	1,095	0
11-9021	Construction Managers	5,380	5,610	2.16	510	115	280	115
11-9031	Education Administrators, Preschool and Childcare Center/Program	470	480	0.86	40	10	25	5
11-9032	Education Administrators, Elementary and Secondary School	3,610	3,730	1.61	340	95	190	60
11-9033	Education Administrators, Postsecondary	2,580	2,670	1.67	250	70	135	45
11-9039	Education Administrators, All Other	610	620	0.33	45	15	30	0

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
11-9041	Architectural and Engineering Managers	2,490	2,560	1.49	220	45	140	35
11-9051	Food Service Managers	3,770	3,870	1.41	490	115	320	55
11-9061	Funeral Service Managers	770	780	0.72	65	20	40	5
11-9081	Lodging Managers	770	790	1.63	90	25	55	10
11-9111	Medical and Health Services Managers	3,370	3,510	2.00	340	85	190	70
11-9121	Natural Sciences Managers	140	140	0.71	15	5	10	0
11-9131	Postmasters and Mail Superintendents	280	270	-1.97	15	5	15	0
11-9141	Property, Real Estate, and Community Association Managers	880	900	1.25	80	35	35	10
11-9151	Social and Community Service Managers	1,490	1,530	1.55	155	45	85	25
11-9161	Emergency Management Directors	190	200	0.52	15	5	10	0
11-9199	Managers, All Other	4,770	4,850	0.82	405	120	245	40
13-0000	Business and Financial Operations Occupations	80,170	82,670	1.56	8,900	2,250	5,400	1,250
13-1000	Business Operations Specialists	46,930	48,110	1.26	5,245	1,320	3,335	590
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	20	20	0.00	0	0	0	0
13-1020	Buyers and Purchasing Agents	7,270	7,340	0.48	795	230	530	35
13-1031	Claims Adjusters, Examiners, and Investigators	3,880	3,890	0.16	335	95	235	5
13-1032	Insurance Appraisers, Auto Damage	480	490	1.89	50	10	30	10
13-1041	Compliance Officers	1,410	1,420	0.64	135	40	85	10
13-1051	Cost Estimators	2,340	2,420	1.78	275	60	175	40
13-1071	Human Resources Specialists	5,680	5,850	1.51	665	155	425	85
13-1074	Farm Labor Contractors	70	70	0.71	10	0	5	0
13-1075	Labor Relations Specialists	990	980	-0.71	90	25	70	0
13-1081	Logisticians	3,410	3,470	0.82	355	80	245	30
13-1111	Management Analysts	5,860	6,180	2.69	725	185	380	160
13-1121	Meeting, Convention, and Event Planners	650	670	1.38	85	20	55	10
13-1131	Fundraisers	1,080	1,100	1.16	125	35	80	10
13-1141	Compensation, Benefits, and Job Analysis Specialists	640	660	1.41	70	20	40	10
13-1151	Training and Development Specialists	2,810	2,930	2.21	370	85	220	60

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Alabama Occupational Projections 2019-2021

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		2019	2021		Total	Exit	Transfers	Growth
13-1161	Market Research Analysts and Marketing Specialists	3,390	3,590	2.99	455	80	275	100
13-1199	Business Operations Specialists, All Other	6,960	7,030	0.48	705	190	480	35
13-2000	Financial Specialists	33,240	34,560	1.99	3,655	925	2,065	660
13-2011	Accountants and Auditors	17,780	18,550	2.17	2,075	510	1,180	385
13-2021	Appraisers and Assessors of Real Estate	1,040	1,070	1.25	90	35	40	15
13-2031	Budget Analysts	860	880	0.93	75	20	45	10
13-2041	Credit Analysts	480	500	1.77	50	10	35	10
13-2051	Financial Analysts	1,550	1,610	2.17	170	30	105	35
13-2052	Personal Financial Advisors	2,860	2,980	2.10	280	65	155	60
13-2053	Insurance Underwriters	1,000	1,020	0.75	90	25	60	10
13-2061	Financial Examiners	1,030	1,070	2.09	100	20	55	20
13-2071	Credit Counselors	80	90	3.62	10	0	5	5
13-2072	Loan Officers	3,820	3,980	2.11	405	95	235	80
13-2081	Tax Examiners and Collectors, and Revenue Agents	1,160	1,170	0.22	100	45	50	0
13-2082	Tax Preparers	770	830	3.70	120	40	50	30
13-2099	Financial Specialists, All Other	810	830	1.18	85	25	50	10
15-0000	Computer and Mathematical Occupations	43,130	45,150	2.35	4,225	730	2,485	1,010
15-1100	Computer Occupations	42,100	44,060	2.33	4,120	705	2,440	980
15-1111	Computer and Information Research Scientists	***	***	2.91	35	5	20	10
15-1121	Computer Systems Analysts	4,470	4,710	2.68	450	90	245	120
15-1122	Information Security Analysts	1,040	1,150	5.14	130	15	60	55
15-1131	Computer Programmers	7,580	7,700	0.82	600	120	415	60
15-1132	Software Developers, Applications	6,130	6,620	4.05	695	90	360	250
15-1133	Software Developers, Systems Software	4,480	4,710	2.62	440	65	260	115
15-1134	Web Developers	850	890	2.37	85	15	50	20
15-1141	Database Administrators	1,780	1,860	2.16	165	35	95	40
15-1142	Network and Computer Systems Administrators	4,770	4,930	1.76	425	80	255	85
15-1143	Computer Network Architects	890	920	2.04	80	10	50	20
15-1151	Computer User Support Specialists	6,740	7,080	2.57	740	125	440	175

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
15-1152	Computer Network Support Specialists	1,260	1,320	2.38	135	25	80	30
15-1199	Computer Occupations, All Other	1,810	1,820	0.31	135	30	100	5
15-2000	Mathematical Science Occupations	1,030	1,090	3.17	100	20	50	30
15-2011	Actuaries	60	70	3.23	5	0	5	0
15-2031	Operations Research Analysts	750	800	3.26	75	20	30	25
15-2041	Statisticians	190	200	2.94	20	5	10	5
15-2090	Miscellaneous Mathematical Science Occupations	***	***	3.13	0	0	0	0
17-0000	Architecture and Engineering Occupations	46,030	47,800	1.92	4,460	1,095	2,480	885
17-1000	Architects, Surveyors, and Cartographers	2,540	2,690	3.02	275	65	135	75
17-1011	Architects, Except Landscape and Naval	1,620	1,720	3.22	180	40	90	50
17-1012	Landscape Architects	70	70	1.54	5	0	5	0
17-1021	Cartographers and Photogrammetrists	190	200	2.94	20	5	10	5
17-1022	Surveyors	670	710	2.69	70	20	35	20
17-2000	Engineers	33,030	34,190	1.77	2,895	685	1,625	585
17-2011	Aerospace Engineers	4,750	4,990	2.52	435	105	210	120
17-2021	Agricultural Engineers	60	60	0.91	5	0	0	0
17-2031	Biomedical Engineers	20	20	-2.28	0	0	0	0
17-2041	Chemical Engineers	530	510	-1.43	25	10	20	0
17-2051	Civil Engineers	4,440	4,590	1.67	425	90	260	75
17-2061	Computer Hardware Engineers	1,560	1,590	1.13	130	30	85	20
17-2071	Electrical Engineers	4,680	4,920	2.51	435	95	220	120
17-2072	Electronics Engineers, Except Computer	2,300	2,390	1.96	200	45	110	45
17-2081	Environmental Engineers	810	840	1.36	75	20	40	10
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	440	450	0.80	35	10	20	5
17-2112	Industrial Engineers	5,140	5,330	1.89	455	105	250	95
17-2121	Marine Engineers and Naval Architects	120	130	1.21	10	0	5	0
17-2131	Materials Engineers	560	580	1.62	45	10	25	10
17-2141	Mechanical Engineers	3,650	3,820	2.37	340	70	185	85
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	200	210	1.76	20	5	10	5

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
17-2161	Nuclear Engineers	180	180	-0.28	10	5	10	0
17-2171	Petroleum Engineers	120	120	-0.41	10	0	5	0
17-2199	Engineers, All Other	3,470	3,480	0.18	245	70	170	5
17-3000	Drafters, Engineering Technicians, and Mapping Technicians	10,470	10,910	2.14	1,295	350	720	225
17-3011	Architectural and Civil Drafters	1,250	1,320	2.64	165	40	90	35
17-3012	Electrical and Electronics Drafters	340	360	2.20	45	10	25	10
17-3013	Mechanical Drafters	630	640	1.04	70	20	45	5
17-3019	Drafters, All Other	190	200	1.04	20	5	15	0
17-3021	Aerospace Engineering and Operations Technicians	210	220	3.85	30	5	15	10
17-3022	Civil Engineering Technicians	1,740	1,770	1.13	190	60	115	20
17-3023	Electrical and Electronics Engineering Technicians	2,170	2,280	2.33	265	75	145	50
17-3024	Electro-Mechanical Technicians	120	110	-2.18	10	5	5	0
17-3025	Environmental Engineering Technicians	230	240	2.22	30	10	15	5
17-3026	Industrial Engineering Technicians	1,170	1,250	3.34	155	40	80	40
17-3027	Mechanical Engineering Technicians	730	770	2.53	90	25	50	20
17-3029	Engineering Technicians, Except Drafters, All Other	880	920	1.93	105	30	60	15
17-3031	Surveying and Mapping Technicians	820	860	2.39	120	25	75	20
19-0000	Life, Physical, and Social Science Occupations	9,540	9,700	0.82	1,045	200	770	80
19-1000	Life Scientists	1,300	1,320	0.97	140	20	105	10
19-1012	Food Scientists and Technologists	30	30	1.67	5	0	5	0
19-1013	Soil and Plant Scientists	150	150	0.33	15	5	15	0
19-1021	Biochemists and Biophysicists	30	40	3.03	5	0	0	0
19-1022	Microbiologists	***	***	0.90	10	0	10	0
19-1023	Zoologists and Wildlife Biologists	90	90	0.00	10	0	5	0
19-1029	Biological Scientists, All Other	220	220	0.69	20	5	15	0
19-1031	Conservation Scientists	110	100	-0.48	10	0	10	0
19-1032	Foresters	230	230	0.67	25	5	20	0
19-1041	Epidemiologists	***	***	0.00	5	0	5	0

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		2019	2021		Total	Exit	Transfers	Growth
19-1042	Medical Scientists, Except Epidemiologists	200	210	2.75	25	5	15	5
19-1099	Life Scientists, All Other	90	90	1.65	5	0	5	0
19-2000	Physical Scientists	2,790	2,830	0.70	295	50	225	20
19-2011	Astronomers	***	***	-1.79	0	0	0	0
19-2012	Physicists	190	200	1.82	20	5	10	5
19-2021	Atmospheric and Space Scientists	540	560	2.13	65	10	45	10
19-2031	Chemists	600	580	-2.08	40	10	45	0
19-2032	Materials Scientists	80	80	-0.60	10	0	5	0
19-2041	Environmental Scientists and Specialists, Including Health	960	980	1.21	115	20	85	10
19-2042	Geoscientists, Except Hydrologists and Geographers	300	320	2.32	40	5	30	5
19-2099	Physical Scientists, All Other	80	80	-0.64	5	0	5	0
19-3000	Social Scientists and Related Workers	1,820	1,860	1.35	180	40	115	25
19-3011	Economists	30	30	1.52	0	0	0	0
19-3031	Clinical, Counseling, and School Psychologists	870	900	2.14	80	20	40	20
19-3032	Industrial-Organizational Psychologists	20	20	3.13	0	0	0	0
19-3039	Psychologists, All Other	150	150	0.00	10	5	5	0
19-3051	Urban and Regional Planners	380	390	1.05	40	5	30	5
19-3091	Anthropologists and Archeologists	90	90	2.91	15	5	10	0
19-3092	Geographers	10	10	0.00	0	0	0	0
19-3093	Historians	50	50	0.00	5	0	5	0
19-3099	Social Scientists and Related Workers, All Other	230	220	-0.66	25	5	20	0
19-4000	Life, Physical, and Social Science Technicians	3,640	3,690	0.59	430	85	325	20
19-4011	Agricultural and Food Science Technicians	230	230	0.88	30	5	25	0
19-4021	Biological Technicians	410	420	1.85	50	5	40	10
19-4031	Chemical Technicians	990	960	-1.46	85	20	80	0
19-4041	Geological and Petroleum Technicians	90	100	2.72	10	0	10	0
19-4051	Nuclear Technicians	***	***	-1.14	10	0	10	0
19-4091	Environmental Science and Protection Technicians, Including Health	370	380	1.63	50	10	35	5

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19-4092	Forensic Science Technicians	290	300	1.55	40	10	25	5
19-4093	Forest and Conservation Technicians	240	240	0.42	30	5	20	0
19-4099	Life, Physical, and Social Science Technicians, All Other	940	970	1.44	125	25	85	15
21-0000	Community and Social Service Occupations	33,800	34,570	1.14	4,065	1,310	2,370	385
21-1000	Counselors, Social Workers, and Other Community and Social Service Specialists	19,200	19,750	1.43	2,250	615	1,360	275
21-1012	Educational, Guidance, School, and Vocational Counselors	3,550	3,690	1.99	440	120	255	70
21-1013	Marriage and Family Therapists	250	260	1.61	30	10	20	5
21-1015	Rehabilitation Counselors	1,160	1,190	1.17	135	40	80	15
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	2,190	2,260	1.76	265	70	155	40
21-1019	Counselors, All Other	170	170	1.19	15	5	10	0
21-1021	Child, Family, and School Social Workers	3,690	3,760	0.92	400	110	255	35
21-1022	Healthcare Social Workers	2,390	2,480	1.95	285	70	165	45
21-1023	Mental Health and Substance Abuse Social Workers	1,360	1,400	1.59	155	40	95	20
21-1029	Social Workers, All Other	340	340	-0.30	35	10	25	0
21-1091	Health Educators	330	340	1.66	45	10	25	5
21-1092	Probation Officers and Correctional Treatment Specialists	1,160	1,170	0.52	105	25	75	5
21-1093	Social and Human Service Assistants	1,490	1,530	1.25	195	60	120	20
21-1094	Community Health Workers	930	960	1.46	120	35	70	15
21-1099	Community and Social Service Specialists, All Other	210	210	0.72	25	10	15	0
21-2000	Religious Workers	14,600	14,820	0.76	1,815	695	1,010	110
21-2011	Clergy	7,970	8,100	0.79	935	350	520	65
21-2021	Directors, Religious Activities and Education	4,810	4,880	0.71	635	240	360	35
21-2099	Religious Workers, All Other	1,810	1,840	0.75	250	105	130	15
23-0000	Legal Occupations	11,540	12,220	2.98	1,135	305	485	345
23-1000	Lawyers, Judges, and Related Workers	7,580	8,030	2.98	600	170	205	225
23-1011	Lawyers	6,850	7,300	3.23	560	150	190	220
23-1012	Judicial Law Clerks	20	20	0.00	0	0	0	0

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		2019	2021		Total	Exit	Transfers	Growth
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	120	120	0.00	5	0	5	0
23-1022	Arbitrators, Mediators, and Conciliators	60	60	1.64	5	0	0	0
23-1023	Judges, Magistrate Judges, and Magistrates	530	530	0.67	30	10	15	5
23-2000	Legal Support Workers	3,960	4,190	3.00	530	135	280	120
23-2011	Paralegals and Legal Assistants	2,980	3,190	3.53	430	105	225	105
23-2091	Court Reporters	380	380	1.20	35	10	20	5
23-2093	Title Examiners, Abstractors, and Searchers	320	330	2.68	35	10	20	10
23-2099	Legal Support Workers, All Other	290	290	0.18	25	10	15	0
25-0000	Education, Training, and Library Occupations	112,270	115,830	1.59	11,850	4,600	5,470	1,785
25-1000	Postsecondary Teachers	18,970	19,800	2.20	2,020	715	890	420
25-1000	Postsecondary Teachers	***	***	2.20	2,025	715	890	420
25-1011	Business Teachers, Postsecondary	1,040	1,090	2.75	120	40	50	30
25-1021	Computer Science Teachers, Postsecondary	340	350	1.61	35	15	15	5
25-1022	Mathematical Science Teachers, Postsecondary	640	660	1.65	65	25	30	10
25-1031	Architecture Teachers, Postsecondary	80	90	1.79	10	5	5	0
25-1032	Engineering Teachers, Postsecondary	530	550	2.07	55	20	25	10
25-1041	Agricultural Sciences Teachers, Postsecondary	250	250	1.23	25	10	10	5
25-1042	Biological Science Teachers, Postsecondary	***	***	2.22	65	20	30	15
25-1043	Forestry and Conservation Science Teachers, Postsecondary	50	50	1.00	0	0	0	0
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	60	70	1.56	5	0	5	0
25-1052	Chemistry Teachers, Postsecondary	260	270	1.74	25	10	10	5
25-1053	Environmental Science Teachers, Postsecondary	30	30	2.00	0	0	0	0
25-1054	Physics Teachers, Postsecondary	150	160	1.65	10	5	5	0
25-1061	Anthropology and Archeology Teachers, Postsecondary	40	40	1.22	0	0	0	0
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	10	10	4.55	0	0	0	0
25-1063	Economics Teachers, Postsecondary	130	130	1.55	10	5	5	0
25-1064	Geography Teachers, Postsecondary	70	70	1.54	5	0	5	0
25-1065	Political Science Teachers, Postsecondary	160	160	1.58	15	5	10	0

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
25-1066	Psychology Teachers, Postsecondary	350	370	2.13	40	15	15	10
25-1067	Sociology Teachers, Postsecondary	120	130	2.02	10	5	5	0
25-1071	Health Specialties Teachers, Postsecondary	3,160	3,410	3.85	390	120	150	120
25-1072	Nursing Instructors and Teachers, Postsecondary	1,500	1,600	3.24	175	55	70	50
25-1081	Education Teachers, Postsecondary	830	860	1.75	85	30	40	15
25-1082	Library Science Teachers, Postsecondary	130	140	1.13	10	5	5	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	90	90	2.30	10	5	5	0
25-1112	Law Teachers, Postsecondary	140	140	1.83	10	5	5	0
25-1113	Social Work Teachers, Postsecondary	110	110	1.82	10	5	5	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	700	720	1.72	65	25	30	10
25-1122	Communications Teachers, Postsecondary	230	230	1.54	25	10	10	5
25-1123	English Language and Literature Teachers, Postsecondary	870	900	1.72	85	30	40	15
25-1124	Foreign Language and Literature Teachers, Postsecondary	150	150	2.06	15	5	5	5
25-1125	History Teachers, Postsecondary	320	330	1.75	30	10	15	5
25-1126	Philosophy and Religion Teachers, Postsecondary	230	240	1.73	25	10	10	5
25-1191	Graduate Teaching Assistants	100	100	1.06	10	5	5	0
25-1192	Home Economics Teachers, Postsecondary	140	140	1.11	10	5	5	0
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	200	210	1.47	25	10	10	5
25-1194	Vocational Education Teachers, Postsecondary	2,010	2,070	1.44	200	75	95	30
25-1199	Postsecondary Teachers, All Other	3,170	3,270	1.55	320	120	150	50
25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	56,230	57,940	1.53	5,165	1,785	2,530	855
25-2011	Preschool Teachers, Except Special Education	4,270	4,350	0.93	470	170	260	40
25-2012	Kindergarten Teachers, Except Special Education	***	***	1.59	150	50	80	20
25-2021	Elementary School Teachers, Except Special Education	25,180	25,960	1.56	2,280	795	1,090	390
25-2022	Middle School Teachers, Except Special and Career/Technical Education	9,420	9,720	1.61	855	300	410	150
25-2023	Career/Technical Education Teachers, Middle School	***	***	1.54	5	0	5	0

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	12,970	13,380	1.60	1,130	365	555	205
25-2032	Career/Technical Education Teachers, Secondary School	***	***	1.48	35	10	20	5
25-2051	Special Education Teachers, Preschool	50	50	1.93	5	0	0	0
25-2052	Special Education Teachers, Kindergarten and Elementary School	1,330	1,370	1.51	120	45	55	20
25-2053	Special Education Teachers, Middle School	550	570	1.55	50	20	25	10
25-2054	Special Education Teachers, Secondary School	700	730	1.56	65	25	30	10
25-2059	Special Education Teachers, All Other	30	30	-1.73	0	0	0	0
25-3000	Other Teachers and Instructors	22,470	23,110	1.43	2,920	1,315	1,280	320
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	680	690	0.59	80	40	40	5
25-3021	Self-Enrichment Education Teachers	5,370	5,490	1.14	680	315	305	60
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	4,000	4,130	1.63	530	235	230	65
25-3098	Substitute Teachers	12,420	12,800	1.54	1,625	730	710	190
25-4000	Librarians, Curators, and Archivists	3,220	3,290	1.04	405	205	170	35
25-4011	Archivists	80	80	0.00	10	5	5	0
25-4012	Curators	110	120	1.34	15	5	5	0
25-4013	Museum Technicians and Conservators	50	50	2.00	5	0	5	0
25-4021	Librarians	2,130	2,190	1.36	245	115	100	30
25-4031	Library Technicians	840	850	0.24	130	75	55	0
25-9000	Other Education, Training, and Library Occupations	11,390	11,700	1.36	1,340	585	600	155
25-9011	Audio-Visual and Multimedia Collections Specialists	30	30	0.00	5	0	0	0
25-9021	Farm and Home Management Advisors	400	410	1.25	45	15	20	5
25-9031	Instructional Coordinators	1,290	1,320	1.12	135	55	65	15
25-9041	Teacher Assistants	8,830	9,080	1.41	1,065	475	470	125
25-9099	Education, Training, and Library Workers, All Other	***	***	1.38	90	35	45	10
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	26,530	27,110	1.10	3,260	1,060	1,910	290
27-1000	Art and Design Workers	9,650	9,800	0.80	1,060	345	640	75

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
27-1011	Art Directors	730	760	2.42	100	40	40	20
27-1012	Craft Artists	350	360	0.86	40	20	20	5
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	70	70	0.73	10	5	5	0
27-1014	Multimedia Artists and Animators	310	320	1.79	40	15	20	5
27-1019	Artists and Related Workers, All Other	130	130	0.38	15	5	10	0
27-1021	Commercial and Industrial Designers	310	320	1.30	35	10	20	5
27-1022	Fashion Designers	70	70	0.00	5	0	5	0
27-1023	Floral Designers	850	840	-0.47	80	30	55	0
27-1024	Graphic Designers	2,210	2,230	0.52	235	70	150	10
27-1025	Interior Designers	700	720	1.65	85	25	50	10
27-1026	Merchandise Displayers and Window Trimmers	3,820	3,870	0.67	410	125	260	25
27-1027	Set and Exhibit Designers	60	70	1.59	5	0	5	0
27-1029	Designers, All Other	***	***	0.00	5	0	5	0
27-2000	Entertainers and Performers, Sports and Related Workers	7,260	7,440	1.28	1,055	385	580	90
27-2011	Actors	350	370	3.01	55	15	30	10
27-2012	Producers and Directors	720	730	0.69	75	15	55	5
27-2022	Coaches and Scouts	3,650	3,770	1.69	605	210	330	60
27-2023	Umpires, Referees, and Other Sports Officials	100	110	0.96	15	5	10	0
27-2041	Music Directors and Composers	2,080	2,100	0.48	260	120	130	10
27-2042	Musicians and Singers	170	180	0.86	25	10	10	0
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	170	180	1.46	20	10	10	0
27-3000	Media and Communication Workers	6,260	6,390	1.07	740	215	460	65
27-3011	Radio and Television Announcers	430	430	-0.12	50	20	30	0
27-3012	Public Address System and Other Announcers	90	90	0.58	10	5	5	0
27-3021	Broadcast News Analysts	***	***	0.37	35	10	25	0
27-3022	Reporters and Correspondents	440	440	-0.79	50	15	40	0
27-3031	Public Relations Specialists	2,290	2,350	1.33	270	70	170	30
27-3041	Editors	830	840	0.36	95	25	65	5
27-3042	Technical Writers	780	830	2.88	100	25	55	20

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
27-3043	Writers and Authors	720	730	1.05	85	30	45	10
27-3091	Interpreters and Translators	350	360	1.59	40	15	20	5
27-3099	Media and Communication Workers, All Other	60	60	0.00	5	0	5	0
27-4000	Media and Communication Equipment Workers	3,370	3,480	1.65	405	120	230	55
27-4011	Audio and Video Equipment Technicians	950	990	1.95	120	30	70	20
27-4012	Broadcast Technicians	390	400	0.77	45	15	30	5
27-4014	Sound Engineering Technicians	60	60	0.90	5	0	5	0
27-4021	Photographers	1,420	1,470	1.73	170	55	90	25
27-4031	Camera Operators, Television, Video, and Motion Picture	260	260	1.56	30	5	20	5
27-4032	Film and Video Editors	160	170	2.18	20	5	10	5
27-4099	Media and Communication Equipment Workers, All Other	140	140	1.11	15	5	10	0
29-0000	Healthcare Practitioners and Technical Occupations	140,130	144,940	1.72	10,545	3,780	4,360	2,405
29-1000	Health Diagnosing and Treating Practitioners	86,750	89,950	1.85	5,930	2,180	2,150	1,600
29-1011	Chiropractors	460	470	1.10	15	10	5	5
29-1021	Dentists, General	1,400	1,440	1.36	60	30	10	20
29-1022	Oral and Maxillofacial Surgeons	***	***	1.17	0	0	0	0
29-1023	Orthodontists	***	***	2.33	0	0	0	0
29-1029	Dentists, All Other Specialists	40	40	0.00	0	0	0	0
29-1031	Dietitians and Nutritionists	980	1,010	1.74	80	30	30	15
29-1041	Optometrists	690	710	1.08	30	15	10	10
29-1051	Pharmacists	5,410	5,450	0.34	260	130	115	20
29-1061	Anesthesiologists	***	***	0.84	30	10	10	5
29-1062	Family and General Practitioners	670	690	1.64	30	10	10	10
29-1063	Internists, General	390	390	0.52	15	5	5	0
29-1064	Obstetricians and Gynecologists	180	180	0.55	5	5	0	0
29-1065	Pediatricians, General	400	410	0.50	15	5	5	0
29-1066	Psychiatrists	450	470	1.90	20	10	5	10
29-1067	Surgeons	520	530	0.39	15	10	5	0

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
29-1069	Physicians and Surgeons, All Other	6,080	6,230	1.21	255	100	80	75
29-1071	Physician Assistants	750	800	3.40	70	10	30	25
29-1081	Podiatrists	110	110	0.46	5	0	5	0
29-1122	Occupational Therapists	1,210	1,260	2.24	95	30	40	25
29-1123	Physical Therapists	2,850	2,990	2.39	190	55	70	70
29-1124	Radiation Therapists	380	390	1.45	25	5	15	5
29-1125	Recreational Therapists	140	140	0.00	5	0	5	0
29-1126	Respiratory Therapists	2,560	2,700	2.90	210	70	65	75
29-1127	Speech-Language Pathologists	1,730	1,860	3.52	155	35	60	60
29-1128	Exercise Physiologists	120	120	0.41	5	5	5	0
29-1129	Therapists, All Other	80	80	1.27	0	0	0	0
29-1131	Veterinarians	1,060	1,140	3.67	80	20	20	40
29-1141	Registered Nurses	52,070	54,050	1.90	3,825	1,470	1,360	990
29-1151	Nurse Anesthetists	1,930	2,020	2.30	140	30	65	45
29-1171	Nurse Practitioners	3,060	3,240	2.88	255	60	105	90
29-1181	Audiologists	80	80	0.65	5	0	0	0
29-1199	Health Diagnosing and Treating Practitioners, All Other	140	140	-0.36	5	5	0	0
29-2000	Health Technologists and Technicians	50,880	52,410	1.51	4,430	1,540	2,125	765
29-2010	Clinical Laboratory Technologists and Technicians	5,040	5,190	1.51	400	140	180	75
29-2021	Dental Hygienists	3,540	3,670	1.71	300	150	90	60
29-2031	Cardiovascular Technologists and Technicians	640	660	1.57	45	15	20	10
29-2032	Diagnostic Medical Sonographers	1,200	1,260	2.54	100	30	40	30
29-2033	Nuclear Medicine Technologists	380	390	1.85	30	10	10	5
29-2034	Radiologic Technologists	3,810	3,920	1.53	270	95	115	60
29-2035	Magnetic Resonance Imaging Technologists	560	580	1.61	40	15	15	10
29-2041	Emergency Medical Technicians and Paramedics	4,250	4,390	1.61	355	75	210	70
29-2051	Dietetic Technicians	150	160	0.98	15	5	10	0
29-2052	Pharmacy Technicians	7,130	7,290	1.07	655	210	375	75
29-2053	Psychiatric Technicians	1,170	1,210	1.37	110	35	60	15

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
29-2054	Respiratory Therapy Technicians	240	220	-4.75	5	5	10	0
29-2055	Surgical Technologists	2,270	2,340	1.48	220	65	120	35
29-2056	Veterinary Technologists and Technicians	1,050	1,130	3.85	130	30	55	40
29-2057	Ophthalmic Medical Technicians	460	480	1.74	45	15	25	10
29-2061	Licensed Practical and Licensed Vocational Nurses	13,850	14,250	1.44	1,270	475	595	200
29-2071	Medical Records and Health Information Technicians	2,850	2,940	1.62	230	85	100	45
29-2081	Opticians, Dispensing	1,290	1,320	1.36	120	50	50	20
29-2091	Orthotists and Prosthetists	140	150	2.54	15	5	5	5
29-2092	Hearing Aid Specialists	40	40	2.63	5	0	0	0
29-2099	Health Technologists and Technicians, All Other	810	840	1.98	70	20	35	15
29-9000	Other Healthcare Practitioners and Technical Occupations	2,500	2,580	1.64	185	60	85	40
29-9011	Occupational Health and Safety Specialists	1,120	1,140	0.89	75	25	40	10
29-9012	Occupational Health and Safety Technicians	100	100	2.61	10	0	5	0
29-9091	Athletic Trainers	490	520	2.54	40	10	15	10
29-9092	Genetic Counselors	***	***	2.63	5	0	0	0
29-9099	Healthcare Practitioners and Technical Workers, All Other	750	780	2.00	60	20	25	15
31-0000	Healthcare Support Occupations	55,740	57,940	1.98	7,560	2,830	3,630	1,100
31-1000	Nursing, Psychiatric, and Home Health Aides	33,200	34,380	1.78	4,375	1,815	1,970	590
31-1011	Home Health Aides	5,430	5,760	2.96	785	300	325	160
31-1013	Psychiatric Aides	2,300	2,340	0.92	280	125	135	20
31-1014	Nursing Assistants	24,630	25,420	1.61	3,200	1,345	1,460	395
31-1015	Orderlies	840	870	1.49	110	45	50	10
31-2000	Occupational Therapy and Physical Therapist Assistants and Aides	3,500	3,710	3.05	540	155	280	105
31-2011	Occupational Therapy Assistants	560	600	3.95	85	25	40	20
31-2012	Occupational Therapy Aides	***	***	2.85	20	5	10	5
31-2021	Physical Therapist Assistants	2,160	2,290	3.07	340	95	180	65
31-2022	Physical Therapist Aides	660	690	2.27	100	30	55	15
31-9000	Other Healthcare Support Occupations	19,050	19,860	2.12	2,645	860	1,380	405

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		2019	2021		Total	Exit	Transfers	Growth
31-9011	Massage Therapists	620	640	1.79	85	40	35	10
31-9091	Dental Assistants	3,370	3,490	1.74	445	160	225	60
31-9092	Medical Assistants	7,730	8,110	2.47	1,065	310	565	190
31-9093	Medical Equipment Preparers	1,270	1,310	1.65	170	65	85	20
31-9094	Medical Transcriptionists	700	700	-0.15	95	40	55	0
31-9095	Pharmacy Aides	610	590	-1.57	65	30	45	0
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	1,090	1,170	3.72	225	60	120	40
31-9097	Phlebotomists	2,410	2,560	3.01	335	90	170	70
31-9099	Healthcare Support Workers, All Other	1,250	1,290	1.52	160	60	80	20
33-0000	Protective Service Occupations	44,780	45,790	1.12	5,155	1,905	2,750	500
33-1000	Supervisors of Protective Service Workers	3,520	3,580	0.84	280	100	150	30
33-1011	First-Line Supervisors of Correctional Officers	460	460	-0.55	35	15	20	0
33-1012	First-Line Supervisors of Police and Detectives	1,220	1,240	0.70	85	30	45	10
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	1,050	1,070	0.81	75	25	40	10
33-1099	First-Line Supervisors of Protective Service Workers, All Other	780	810	1.92	90	30	45	15
33-2000	Fire Fighting and Prevention Workers	4,880	4,960	0.81	380	90	245	40
33-2011	Firefighters	4,710	4,780	0.79	360	85	240	35
33-2021	Fire Inspectors and Investigators	120	120	1.25	15	5	5	0
33-2022	Forest Fire Inspectors and Prevention Specialists	50	50	1.96	5	0	0	0
33-3000	Law Enforcement Workers	18,430	18,550	0.32	1,455	525	870	60
33-3011	Bailiffs	90	90	0.00	10	5	5	0
33-3012	Correctional Officers and Jailers	5,830	5,770	-0.52	480	220	290	0
33-3021	Detectives and Criminal Investigators	1,360	1,370	0.41	95	30	60	5
33-3031	Fish and Game Wardens	220	220	0.23	15	5	10	0
33-3041	Parking Enforcement Workers	90	90	-3.19	5	0	5	0
33-3051	Police and Sheriff's Patrol Officers	10,840	11,010	0.79	850	260	505	85
33-9000	Other Protective Service Workers	17,960	18,710	2.08	3,040	1,190	1,480	375
33-9011	Animal Control Workers	230	240	0.86	25	10	10	0
33-9021	Private Detectives and Investigators	230	250	3.48	30	10	15	10

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		2019	2021		Total	Exit	Transfers	Growth
33-9031	Gaming Surveillance Officers and Gaming Investigators	40	40	2.50	5	0	5	0
33-9032	Security Guards	13,900	14,550	2.33	2,155	725	1,105	325
33-9091	Crossing Guards	560	570	0.98	100	65	25	5
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	1,550	1,590	1.32	400	205	175	20
33-9093	Transportation Security Screeners	240	240	-0.42	20	10	10	0
33-9099	Protective Service Workers, All Other	1,200	1,230	1.21	310	160	135	15
35-0000	Food Preparation and Serving Related Occupations	176,290	181,280	1.42	33,125	12,290	18,340	2,500
35-1000	Supervisors of Food Preparation and Serving Workers	17,880	18,390	1.43	3,010	780	1,970	255
35-1011	Chefs and Head Cooks	650	670	1.47	95	20	65	10
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	17,230	17,720	1.43	2,910	760	1,905	245
35-2000	Cooks and Food Preparation Workers	48,810	50,010	1.23	7,915	2,830	4,485	600
35-2011	Cooks, Fast Food	7,220	7,160	-0.41	990	380	635	0
35-2012	Cooks, Institution and Cafeteria	11,180	11,370	0.83	1,685	600	995	90
35-2013	Cooks, Private Household	370	380	1.63	60	20	35	5
35-2014	Cooks, Restaurant	16,380	17,180	2.45	2,775	890	1,485	400
35-2015	Cooks, Short Order	3,230	3,240	0.16	465	170	285	5
35-2019	Cooks, All Other	***	***	1.07	45	15	25	5
35-2021	Food Preparation Workers	10,150	10,400	1.21	1,900	755	1,025	120
35-3000	Food and Beverage Serving Workers	96,190	99,170	1.55	19,495	7,450	10,555	1,490
35-3011	Bartenders	3,970	4,050	1.09	750	190	520	45
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	51,350	53,450	2.05	10,380	4,180	5,155	1,050
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	4,850	4,940	0.89	1,105	550	510	45
35-3031	Waiters and Waitresses	33,930	34,580	0.97	6,905	2,380	4,200	330
35-3041	Food Servers, Nonrestaurant	2,090	2,140	1.25	355	155	175	25
35-9000	Other Food Preparation and Serving Related Workers	13,420	13,720	1.12	2,705	1,230	1,330	150
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	2,320	2,390	1.42	435	195	210	35

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
35-9021	Dishwashers	5,150	5,220	0.67	855	385	435	35
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	5,080	5,230	1.40	1,250	575	605	70
35-9099	Food Preparation and Serving Related Workers, All Other	860	890	1.40	155	70	75	10
37-0000	Building and Grounds Cleaning and Maintenance Occupations	80,180	83,570	2.12	12,310	4,455	6,155	1,700
37-1000	Supervisors of Building and Grounds Cleaning and Maintenance Workers	8,520	8,940	2.46	1,180	335	635	210
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	4,270	4,480	2.44	600	185	310	105
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	4,250	4,460	2.49	580	150	325	105
37-2000	Building Cleaning and Pest Control Workers	52,120	54,190	1.99	8,090	3,300	3,750	1,035
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	36,890	38,450	2.12	5,740	2,305	2,655	780
37-2012	Maids and Housekeeping Cleaners	13,010	13,370	1.40	1,960	935	845	180
37-2021	Pest Control Workers	2,220	2,370	3.31	390	65	250	75
37-3000	Grounds Maintenance Workers	19,540	20,440	2.32	3,040	820	1,770	450
37-3011	Landscaping and Groundskeeping Workers	18,510	19,390	2.39	2,895	775	1,680	440
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	570	580	0.88	80	25	50	5
37-3013	Tree Trimmers and Pruners	390	390	1.17	55	15	35	5
37-3019	Grounds Maintenance Workers, All Other	70	80	2.03	10	5	5	0
39-0000	Personal Care and Service Occupations	64,250	66,290	1.59	10,705	4,530	5,155	1,020
39-1000	Supervisors of Personal Care and Service Workers	3,860	3,960	1.27	435	160	230	50
39-1010	First-Line Supervisors of Gaming Workers	110	120	1.32	20	5	15	0
39-1021	First-Line Supervisors of Personal Service Workers	3,750	3,840	1.27	415	150	215	50
39-2000	Animal Care and Service Workers	4,350	4,590	2.72	840	310	415	120
39-2011	Animal Trainers	90	90	1.10	15	5	10	0
39-2021	Nonfarm Animal Caretakers	4,260	4,500	2.76	825	305	405	120
39-3000	Entertainment Attendants and Related Workers	3,730	3,810	1.12	910	415	455	40
39-3012	Gaming and Sports Book Writers and Runners	100	100	1.55	20	5	10	0

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
39-3021	Motion Picture Projectionists	30	30	0.00	5	0	5	0
39-3031	Ushers, Lobby Attendants, and Ticket Takers	720	730	0.63	180	95	80	5
39-3091	Amusement and Recreation Attendants	2,540	2,610	1.22	625	275	320	30
39-3092	Costume Attendants	10	10	12.50	5	0	0	0
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	60	60	0.82	15	5	10	0
39-3099	Entertainment Attendants and Related Workers, All Other	***	***	1.13	70	30	35	5
39-4000	Funeral Service Workers	1,380	1,390	0.40	210	110	95	5
39-4011	Embalmers	70	70	0.00	10	5	5	0
39-4021	Funeral Attendants	850	860	0.41	140	80	55	5
39-4031	Morticians, Undertakers, and Funeral Directors	460	470	0.44	60	25	30	0
39-5000	Personal Appearance Workers	7,770	7,880	0.76	1,015	465	490	60
39-5011	Barbers	320	320	0.48	35	15	20	0
39-5012	Hairdressers, Hairstylists, and Cosmetologists	6,190	6,280	0.74	820	380	400	45
39-5092	Manicurists and Pedicurists	570	580	0.79	70	30	35	5
39-5093	Shampooers	190	200	0.52	25	10	10	0
39-5094	Skincare Specialists	490	500	1.23	65	30	30	5
39-6000	Baggage Porters, Bellhops, and Concierges	430	440	1.76	70	20	40	10
39-6011	Baggage Porters and Bellhops	310	320	1.63	50	15	30	5
39-6012	Concierges	120	120	2.10	20	5	10	0
39-7000	Tour and Travel Guides	440	450	1.73	85	35	45	10
39-7010	Tour and Travel Guides	440	450	1.73	85	35	45	10
39-9000	Other Personal Care and Service Workers	42,300	43,770	1.74	7,140	3,020	3,390	735
39-9011	Childcare Workers	16,610	16,930	0.97	2,660	1,240	1,260	160
39-9021	Personal Care Aides	15,050	15,890	2.80	2,580	1,145	1,015	420
39-9031	Fitness Trainers and Aerobics Instructors	2,830	2,930	1.79	530	170	305	50
39-9032	Recreation Workers	4,980	5,110	1.23	900	300	535	60
39-9041	Residential Advisors	2,320	2,380	1.45	390	130	230	35
39-9099	Personal Care and Service Workers, All Other	510	530	1.37	80	30	45	5
41-0000	Sales and Related Occupations	232,870	236,090	0.69	35,540	13,640	20,285	1,610

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
41-1000	Supervisors of Sales Workers	36,610	37,060	0.62	4,200	1,260	2,710	225
41-1011	First-Line Supervisors of Retail Sales Workers	31,360	31,730	0.60	3,655	1,090	2,380	185
41-1012	First-Line Supervisors of Non-Retail Sales Workers	5,260	5,330	0.74	545	170	335	40
41-2000	Retail Sales Workers	145,900	147,280	0.47	24,960	10,630	13,640	690
41-2011	Cashiers	73,480	73,910	0.30	14,120	6,580	7,325	220
41-2012	Gaming Change Persons and Booth Cashiers	10	10	0.00	0	0	0	0
41-2021	Counter and Rental Clerks	9,180	9,400	1.22	1,305	470	720	110
41-2022	Parts Salespersons	4,360	4,430	0.78	565	180	350	35
41-2031	Retail Salespersons	58,880	59,530	0.55	8,975	3,400	5,245	325
41-3000	Sales Representatives, Services	17,790	18,440	1.82	2,365	595	1,450	320
41-3011	Advertising Sales Agents	1,680	1,700	0.75	240	55	175	10
41-3021	Insurance Sales Agents	6,980	7,250	1.88	825	260	430	130
41-3031	Securities, Commodities, and Financial Services Sales Agents	1,760	1,830	1.85	200	45	125	30
41-3041	Travel Agents	410	440	3.26	70	25	30	15
41-3099	Sales Representatives, Services, All Other	6,960	7,220	1.91	1,035	210	690	135
41-4000	Sales Representatives, Wholesale and Manufacturing	25,500	26,070	1.13	2,990	785	1,920	290
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	930	960	1.67	115	30	70	15
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	24,570	25,110	1.11	2,880	755	1,850	270
41-9000	Other Sales and Related Workers	7,070	7,250	1.25	1,020	370	560	90
41-9011	Demonstrators and Product Promoters	830	850	1.39	155	85	60	10
41-9021	Real Estate Brokers	560	580	1.70	65	25	30	10
41-9022	Real Estate Sales Agents	2,170	2,240	1.61	245	100	110	35
41-9031	Sales Engineers	260	270	1.75	30	5	20	5
41-9041	Telemarketers	2,500	2,540	0.80	415	120	275	20
41-9099	Sales and Related Workers, All Other	***	***	1.07	105	30	65	10
43-0000	Office and Administrative Support Occupations	312,010	316,160	0.67	38,820	15,480	21,265	2,075

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
43-1000	Supervisors of Office and Administrative Support Workers	18,690	19,030	0.90	2,145	710	1,270	170
43-1011	First-Line Supervisors of Office and Administrative Support Workers	18,690	19,030	0.90	2,150	710	1,270	170
43-2000	Communications Equipment Operators	1,390	1,350	-1.41	150	80	90	0
43-2011	Switchboard Operators, Including Answering Service	1,350	1,310	-1.41	145	75	90	0
43-2021	Telephone Operators	***	***	-1.43	5	0	5	0
43-2099	Communications Equipment Operators, All Other	10	10	0.00	0	0	0	0
43-3000	Financial Clerks	51,750	52,630	0.85	6,480	2,755	3,290	440
43-3011	Bill and Account Collectors	4,420	4,520	1.13	585	175	360	50
43-3021	Billing and Posting Clerks	7,590	7,870	1.90	985	320	520	145
43-3031	Bookkeeping, Accounting, and Auditing Clerks	26,880	27,260	0.69	3,340	1,645	1,505	185
43-3051	Payroll and Timekeeping Clerks	2,680	2,720	0.67	315	125	170	20
43-3061	Procurement Clerks	700	700	-0.64	70	25	50	0
43-3071	Tellers	9,310	9,390	0.45	1,170	460	670	40
43-3099	Financial Clerks, All Other	160	170	1.84	20	5	10	5
43-4000	Information and Record Clerks	73,010	74,610	1.10	10,315	3,680	5,835	800
43-4011	Brokerage Clerks	670	700	1.86	80	30	40	10
43-4021	Correspondence Clerks	50	50	0.00	5	0	5	0
43-4031	Court, Municipal, and License Clerks	2,740	2,770	0.61	270	125	130	15
43-4041	Credit Authorizers, Checkers, and Clerks	280	280	0.36	30	10	20	0
43-4051	Customer Service Representatives	32,450	33,270	1.26	4,785	1,580	2,800	410
43-4061	Eligibility Interviewers, Government Programs	3,370	3,380	0.20	325	130	190	5
43-4071	File Clerks	720	730	0.14	90	40	50	0
43-4081	Hotel, Motel, and Resort Desk Clerks	4,090	4,160	0.90	735	225	470	35
43-4111	Interviewers, Except Eligibility and Loan	3,650	3,720	1.00	490	185	265	35
43-4121	Library Assistants, Clerical	1,330	1,330	0.04	200	105	95	0
43-4131	Loan Interviewers and Clerks	2,920	3,050	2.17	370	110	190	65
43-4141	New Accounts Clerks	430	430	1.06	55	20	30	5
43-4151	Order Clerks	1,490	1,490	0.07	170	60	110	0
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	1,550	1,560	0.52	185	55	120	10

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		2019	2021		Total	Exit	Transfers	Growth
43-4171	Receptionists and Information Clerks	15,550	15,950	1.29	2,315	915	1,200	200
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	590	600	1.11	70	25	40	5
43-4199	Information and Record Clerks, All Other	1,140	1,140	-0.26	125	55	75	0
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	53,110	53,730	0.59	6,250	2,290	3,650	315
43-5011	Cargo and Freight Agents	780	800	1.41	85	30	45	10
43-5021	Couriers and Messengers	2,450	2,500	1.11	265	100	140	25
43-5031	Police, Fire, and Ambulance Dispatchers	2,660	2,700	0.89	280	95	160	25
43-5032	Dispatchers, Except Police, Fire, and Ambulance	2,330	2,360	0.82	240	80	140	20
43-5041	Meter Readers, Utilities	660	650	-0.61	60	30	35	0
43-5051	Postal Service Clerks	1,310	1,280	-1.00	85	55	45	0
43-5052	Postal Service Mail Carriers	5,250	5,150	-1.02	330	190	195	0
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	1,020	990	-1.53	65	45	35	0
43-5061	Production, Planning, and Expediting Clerks	2,670	2,700	0.72	300	90	190	20
43-5071	Shipping, Receiving, and Traffic Clerks	8,360	8,450	0.52	880	280	555	45
43-5081	Stock Clerks and Order Fillers	23,550	23,980	0.90	3,375	1,200	1,960	210
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	2,080	2,170	2.17	285	95	145	45
43-6000	Secretaries and Administrative Assistants	67,320	67,680	0.27	7,735	3,460	4,095	180
43-6011	Executive Secretaries and Executive Administrative Assistants	4,180	4,110	-0.85	430	210	250	0
43-6012	Legal Secretaries	4,030	4,150	1.47	515	210	250	60
43-6013	Medical Secretaries	5,450	5,690	2.23	745	285	340	120
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	53,660	53,730	0.07	6,045	2,750	3,260	35
43-9000	Other Office and Administrative Support Workers	46,750	47,140	0.42	5,740	2,510	3,040	195
43-9011	Computer Operators	800	780	-1.38	85	40	60	0
43-9021	Data Entry Keyers	1,760	1,730	-0.77	185	80	120	0
43-9022	Word Processors and Typists	400	380	-2.15	40	25	25	0
43-9031	Desktop Publishers	80	80	-0.66	10	5	5	0
43-9041	Insurance Claims and Policy Processing Clerks	2,960	3,050	1.51	345	110	190	45

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43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	540	550	0.46	60	25	35	0
43-9061	Office Clerks, General	36,970	37,250	0.38	4,580	2,075	2,365	140
43-9071	Office Machine Operators, Except Computer	870	880	0.63	115	50	60	5
43-9081	Proofreaders and Copy Markers	40	40	1.35	5	0	0	0
43-9111	Statistical Assistants	90	90	3.41	15	5	10	5
43-9199	Office and Administrative Support Workers, All Other	2,250	2,320	1.42	295	95	170	30
45-0000	Farming, Fishing, and Forestry Occupations	34,580	34,550	-0.04	5,570	1,370	4,210	0
45-1000	Supervisors of Farming, Fishing, and Forestry Workers	1,520	1,520	0.00	225	55	170	0
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	1,520	1,520	0.00	225	55	170	0
45-2000	Agricultural Workers	29,770	29,750	-0.03	4,820	1,185	3,645	0
45-2011	Agricultural Inspectors	***	***	-0.19	80	25	55	0
45-2021	Animal Breeders	***	***	3.57	0	0	0	0
45-2041	Graders and Sorters, Agricultural Products	1,280	1,280	0.16	190	50	135	0
45-2091	Agricultural Equipment Operators	2,410	2,440	0.77	415	95	300	20
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	24,590	24,520	-0.14	3,975	975	3,035	0
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	570	580	0.71	95	20	70	5
45-2099	Agricultural Workers, All Other	370	380	0.95	65	15	45	5
45-4000	Forest, Conservation, and Logging Workers	3,290	3,280	-0.15	520	130	400	0
45-4011	Forest and Conservation Workers	70	60	-2.24	10	0	10	0
45-4021	Fallers	120	120	-0.83	15	5	15	0
45-4022	Logging Equipment Operators	2,880	2,870	-0.14	455	115	350	0
45-4023	Log Graders and Scalers	180	180	0.57	30	5	20	0
45-4029	Logging Workers, All Other	50	50	1.09	5	0	5	0
47-0000	Construction and Extraction Occupations	90,800	94,140	1.84	11,985	2,985	7,330	1,670
47-1000	Supervisors of Construction and Extraction Workers	12,750	13,260	1.98	1,605	390	965	250
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	12,750	13,260	1.98	1,605	390	965	250
47-2000	Construction Trades Workers	62,990	65,380	1.90	8,250	2,025	5,030	1,195

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		2019	2021		Total	Exit	Transfers	Growth
47-2011	Boilermakers	330	330	1.07	35	10	25	5
47-2021	Brickmasons and Blockmasons	670	690	1.96	80	20	50	15
47-2022	Stonemasons	80	80	1.28	10	0	5	0
47-2031	Carpenters	11,850	12,270	1.77	1,460	375	870	210
47-2041	Carpet Installers	240	240	1.48	25	5	15	5
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	360	380	3.37	50	10	25	10
47-2043	Floor Sanders and Finishers	90	90	2.25	10	0	5	0
47-2044	Tile and Marble Setters	320	340	2.63	40	10	25	10
47-2051	Cement Masons and Concrete Finishers	1,840	1,920	2.15	235	55	140	40
47-2053	Terrazzo Workers and Finishers	***	***	2.94	0	0	0	0
47-2061	Construction Laborers	11,450	11,940	2.12	1,545	390	910	240
47-2071	Paving, Surfacing, and Tamping Equipment Operators	1,380	1,430	1.89	200	65	110	25
47-2073	Operating Engineers and Other Construction Equipment Operators	6,350	6,540	1.52	840	220	525	95
47-2081	Drywall and Ceiling Tile Installers	620	640	1.71	70	20	45	10
47-2111	Electricians	10,340	10,720	1.86	1,410	325	895	190
47-2121	Glaziers	520	540	1.92	70	20	45	10
47-2131	Insulation Workers, Floor, Ceiling, and Wall	210	220	1.18	25	5	20	0
47-2132	Insulation Workers, Mechanical	290	300	2.28	40	5	25	5
47-2141	Painters, Construction and Maintenance	3,060	3,180	1.99	375	110	210	60
47-2142	Paperhangers	60	60	1.76	5	0	5	0
47-2151	Pipelayers	2,790	2,860	1.29	350	80	230	35
47-2152	Plumbers, Pipefitters, and Steamfitters	5,880	6,120	2.11	790	175	490	125
47-2161	Plasterers and Stucco Masons	190	200	2.12	20	5	15	5
47-2171	Reinforcing Iron and Rebar Workers	20	20	2.78	0	0	0	0
47-2181	Roofers	1,260	1,320	2.30	160	35	100	30
47-2211	Sheet Metal Workers	1,360	1,410	1.84	175	40	110	25
47-2221	Structural Iron and Steel Workers	1,450	1,510	2.39	210	40	135	35
47-3000	Helpers, Construction Trades	5,560	5,790	2.07	880	185	575	115
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	360	380	2.07	60	10	40	10

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
47-3012	Helpers--Carpenters	720	750	2.37	115	25	75	15
47-3013	Helpers--Electricians	2,180	2,250	1.70	335	75	225	35
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	230	240	1.76	35	10	25	5
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	1,410	1,480	2.52	230	50	145	35
47-3016	Helpers--Roofers	260	270	2.32	40	10	25	5
47-3019	Helpers, Construction Trades, All Other	410	420	1.98	65	15	40	10
47-4000	Other Construction and Related Workers	7,580	7,790	1.39	995	320	570	105
47-4011	Construction and Building Inspectors	1,390	1,440	1.88	200	80	95	25
47-4021	Elevator Installers and Repairers	280	280	1.45	35	10	20	5
47-4031	Fence Erectors	400	420	2.11	55	15	30	10
47-4041	Hazardous Materials Removal Workers	560	590	2.71	85	25	45	15
47-4051	Highway Maintenance Workers	3,810	3,850	0.62	450	155	270	25
47-4061	Rail-Track Laying and Maintenance Equipment Operators	180	190	3.04	25	5	15	5
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	300	320	3.01	45	10	25	10
47-4090	Miscellaneous Construction and Related Workers	680	700	2.00	100	25	60	15
47-5000	Extraction Workers	1,910	1,930	0.29	255	65	185	5
47-5011	Derrick Operators, Oil and Gas	***	***	1.73	5	0	5	0
47-5012	Rotary Drill Operators, Oil and Gas	70	80	1.37	10	0	10	0
47-5013	Service Unit Operators, Oil, Gas, and Mining	140	150	0.70	20	5	15	0
47-5021	Earth Drillers, Except Oil and Gas	210	220	1.64	35	10	20	5
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	190	180	-0.54	20	5	15	0
47-5041	Continuous Mining Machine Operators	***	***	-0.81	15	5	10	0
47-5042	Mine Cutting and Channeling Machine Operators	390	390	0.00	50	15	35	0
47-5049	Mining Machine Operators, All Other	***	***	0.00	15	5	10	0
47-5061	Roof Bolters, Mining	***	***	0.00	40	10	30	0
47-5071	Roustabouts, Oil and Gas	***	***	0.00	20	5	15	0
47-5081	Helpers--Extraction Workers	100	110	1.44	15	5	10	0
47-5099	Extraction Workers, All Other	60	60	0.00	5	0	5	0

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
49-0000	Installation, Maintenance, and Repair Occupations	103,050	105,720	1.30	11,505	3,255	6,915	1,335
49-1000	Supervisors of Installation, Maintenance, and Repair Workers	8,570	8,770	1.12	890	270	525	95
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	8,570	8,770	1.12	890	270	525	95
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	12,220	12,500	1.15	1,400	310	950	140
49-2011	Computer, Automated Teller, and Office Machine Repairers	2,090	2,140	1.34	255	60	165	30
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	230	240	2.16	30	5	20	5
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	3,870	3,970	1.23	480	110	320	50
49-2091	Avionics Technicians	590	610	1.88	55	15	30	10
49-2092	Electric Motor, Power Tool, and Related Repairers	620	630	0.97	70	25	40	5
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	110	120	1.79	10	0	10	0
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	1,970	1,970	0.05	170	35	135	0
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	1,240	1,260	0.93	120	20	85	10
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	130	120	-3.60	10	5	10	0
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	420	420	0.12	45	10	35	0
49-2098	Security and Fire Alarm Systems Installers	970	1,030	3.31	150	30	90	30
49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	29,560	30,070	0.87	3,145	870	2,015	260
49-3011	Aircraft Mechanics and Service Technicians	***	***	2.59	315	80	160	75
49-3021	Automotive Body and Related Repairers	2,570	2,600	0.70	265	85	165	20
49-3022	Automotive Glass Installers and Repairers	180	190	0.83	20	5	15	0
49-3023	Automotive Service Technicians and Mechanics	9,750	9,820	0.38	990	265	685	35
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	5,120	5,230	1.09	535	145	335	55
49-3041	Farm Equipment Mechanics and Service Technicians	830	850	1.14	95	25	60	10

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	3,000	3,050	0.94	330	95	205	30
49-3043	Rail Car Repairers	390	400	1.15	45	10	25	5
49-3051	Motorboat Mechanics and Service Technicians	330	330	0.46	35	15	20	0
49-3052	Motorcycle Mechanics	310	310	0.32	30	10	20	0
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	850	870	1.30	95	35	50	10
49-3091	Bicycle Repairers	***	***	2.43	20	5	10	5
49-3092	Recreational Vehicle Service Technicians	160	160	0.63	20	5	15	0
49-3093	Tire Repairers and Changers	3,050	3,080	0.36	350	95	245	10
49-9000	Other Installation, Maintenance, and Repair Occupations	52,690	54,370	1.60	6,070	1,800	3,430	840
49-9011	Mechanical Door Repairers	180	180	1.69	20	5	10	5
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	1,470	1,500	1.09	145	40	90	15
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	6,290	6,590	2.36	780	175	455	150
49-9031	Home Appliance Repairers	340	350	0.58	40	15	20	0
49-9041	Industrial Machinery Mechanics	11,220	11,650	1.91	1,260	360	690	215
49-9043	Maintenance Workers, Machinery	790	800	1.08	80	30	40	10
49-9044	Millwrights	1,120	1,160	1.70	115	30	65	20
49-9045	Refractory Materials Repairers, Except Brickmasons	100	100	-0.51	10	5	5	0
49-9051	Electrical Power-Line Installers and Repairers	4,290	4,440	1.75	440	105	260	75
49-9052	Telecommunications Line Installers and Repairers	1,110	1,150	1.94	150	25	100	20
49-9062	Medical Equipment Repairers	930	950	1.08	110	40	60	10
49-9063	Musical Instrument Repairers and Tuners	130	130	-0.39	15	5	10	0
49-9064	Watch Repairers	***	***	-1.93	5	0	5	0
49-9069	Precision Instrument and Equipment Repairers, All Other	210	220	0.47	25	10	15	0
49-9071	Maintenance and Repair Workers, General	16,750	17,200	1.34	1,870	595	1,050	225
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	620	600	-1.06	65	25	45	0
49-9092	Commercial Divers	90	90	2.36	10	5	5	0

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
49-9094	Locksmiths and Safe Repairers	390	400	1.80	50	20	25	5
49-9095	Manufactured Building and Mobile Home Installers	***	***	0.36	10	5	5	0
49-9096	Riggers	140	150	2.09	15	5	10	5
49-9098	Helpers--Installation, Maintenance, and Repair Workers	3,780	3,900	1.54	550	205	285	60
49-9099	Installation, Maintenance, and Repair Workers, All Other	2,550	2,630	1.47	315	100	175	40
51-0000	Production Occupations	224,730	229,570	1.08	28,970	8,875	17,675	2,420
51-1000	Supervisors of Production Workers	13,770	14,020	0.94	1,550	440	980	130
51-1011	First-Line Supervisors of Production and Operating Workers	13,770	14,020	0.94	1,550	440	980	130
51-2000	Assemblers and Fabricators	53,000	55,650	2.50	7,565	2,130	4,115	1,325
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	1,580	1,620	1.01	155	30	110	15
51-2021	Coil Winders, Tapers, and Finishers	400	380	-2.62	35	15	30	0
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	3,280	3,230	-0.77	345	140	230	0
51-2031	Engine and Other Machine Assemblers	1,530	1,550	0.72	195	35	145	10
51-2041	Structural Metal Fabricators and Fitters	2,660	2,600	-1.17	245	65	210	0
51-2091	Fiberglass Laminators and Fabricators	830	860	2.06	115	35	65	15
51-2093	Timing Device Assemblers and Adjusters	***	***	-10.00	0	0	0	0
51-2098	Assemblers and Fabricators, All Other, Including Team Assemblers	42,710	45,410	3.16	6,480	1,805	3,325	1,350
51-3000	Food Processing Workers	20,170	20,580	1.02	2,830	935	1,685	205
51-3011	Bakers	1,940	1,980	1.16	290	115	155	20
51-3021	Butchers and Meat Cutters	1,610	1,640	0.96	215	65	135	15
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	12,110	12,350	0.98	1,630	500	1,010	120
51-3023	Slaughterers and Meat Packers	260	270	0.76	35	10	20	0
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	280	280	0.18	40	15	25	0
51-3092	Food Batchmakers	1,110	1,140	1.35	180	70	100	15
51-3093	Food Cooking Machine Operators and Tenders	1,900	1,940	1.06	320	125	175	20
51-3099	Food Processing Workers, All Other	950	980	1.21	110	35	65	10

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SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
51-4000	Metal Workers and Plastic Workers	45,200	46,100	0.99	5,405	1,460	3,500	450
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	2,210	2,250	0.82	245	65	165	20
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	640	690	3.42	90	20	50	20
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	2,500	2,530	0.60	330	70	245	15
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	600	600	-0.25	55	15	40	0
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	740	750	0.54	75	20	50	5
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	5,780	5,840	0.58	685	220	430	35
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	570	570	-0.53	55	20	40	0
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,410	1,410	0.22	165	60	100	5
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	530	540	1.43	70	25	35	10
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	***	***	-2.02	25	10	20	0
51-4041	Machinists	6,650	6,800	1.15	760	225	460	75
51-4051	Metal-Refining Furnace Operators and Tenders	1,270	1,300	1.30	170	45	105	15
51-4052	Pourers and Casters, Metal	540	540	0.10	65	20	45	0
51-4061	Model Makers, Metal and Plastic	***	***	2.09	5	0	0	0
51-4062	Patternmakers, Metal and Plastic	130	130	0.40	15	5	10	0
51-4071	Foundry Mold and Coremakers	***	***	0.77	15	5	10	0
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	2,760	2,840	1.47	345	85	220	40
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	3,440	3,580	2.04	435	120	245	70
51-4111	Tool and Die Makers	740	760	1.22	85	30	45	10
51-4121	Welders, Cutters, Solderers, and Brazers	10,550	10,830	1.34	1,315	275	900	140
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	1,360	1,350	-0.37	145	35	115	0
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	270	270	0.38	30	10	20	0

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		2019	2021		Total	Exit	Transfers	Growth
51-4192	Layout Workers, Metal and Plastic	630	620	-0.32	65	20	45	0
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	640	640	0.16	70	20	50	0
51-4194	Tool Grinders, Filers, and Sharpeners	430	440	0.94	65	30	30	5
51-4199	Metal Workers and Plastic Workers, All Other	380	380	0.40	40	15	25	0
51-5100	Printing Workers	2,910	2,770	-2.38	250	115	205	0
51-5111	Prepress Technicians and Workers	270	250	-4.26	20	10	20	0
51-5112	Printing Press Operators	2,340	2,260	-1.69	210	90	160	0
51-5113	Print Binding and Finishing Workers	300	260	-6.06	20	20	20	0
51-6000	Textile, Apparel, and Furnishings Workers	12,180	11,790	-1.62	1,215	660	750	0
51-6011	Laundry and Dry-Cleaning Workers	2,990	3,060	1.14	435	190	215	35
51-6021	Pressers, Textile, Garment, and Related Materials	700	680	-1.51	70	35	45	0
51-6031	Sewing Machine Operators	3,200	3,030	-2.72	265	180	170	0
51-6041	Shoe and Leather Workers and Repairers	50	50	0.00	5	5	0	0
51-6051	Sewers, Hand	170	170	0.00	20	15	10	0
51-6052	Tailors, Dressmakers, and Custom Sewers	390	390	0.13	50	30	20	0
51-6061	Textile Bleaching and Dyeing Machine Operators and Tenders	330	310	-3.05	35	20	25	0
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	300	290	-2.00	20	10	15	0
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	880	830	-3.12	65	50	45	0
51-6064	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	2,220	2,070	-3.40	140	70	140	0
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	410	380	-3.34	40	20	30	0
51-6092	Fabric and Apparel Patternmakers	20	20	-3.13	0	0	0	0
51-6093	Upholsterers	250	250	0.81	30	10	15	0
51-6099	Textile, Apparel, and Furnishings Workers, All Other	290	280	-0.88	35	15	20	0
51-7000	Woodworkers	9,300	9,400	0.53	1,160	390	715	50
51-7011	Cabinetmakers and Bench Carpenters	2,830	2,810	-0.39	280	120	175	0
51-7021	Furniture Finishers	230	230	0.22	25	10	15	0

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		2019	2021		Total	Exit	Transfers	Growth
51-7031	Model Makers, Wood	20	20	0.00	0	0	0	0
51-7032	Patternmakers, Wood	20	20	0.00	0	0	0	0
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	3,240	3,310	1.04	410	95	285	35
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	2,340	2,380	0.86	350	125	200	20
51-7099	Woodworkers, All Other	630	640	1.04	85	40	40	5
51-8000	Plant and System Operators	5,470	5,300	-1.50	445	140	390	0
51-8011	Nuclear Power Reactor Operators	***	***	-1.33	20	5	20	0
51-8012	Power Distributors and Dispatchers	460	460	0.66	45	10	35	5
51-8013	Power Plant Operators	860	860	-0.06	80	20	60	0
51-8021	Stationary Engineers and Boiler Operators	360	360	0.00	40	10	25	0
51-8031	Water and Wastewater Treatment Plant and System Operators	1,990	1,980	-0.25	175	60	120	0
51-8091	Chemical Plant and System Operators	830	710	-7.15	25	20	65	0
51-8092	Gas Plant Operators	280	290	0.71	35	5	25	0
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	360	320	-5.39	20	10	30	0
51-8099	Plant and System Operators, All Other	80	80	0.66	5	0	5	0
51-9000	Other Production Occupations	62,750	63,970	0.97	8,555	2,605	5,340	610
51-9011	Chemical Equipment Operators and Tenders	2,830	2,490	-6.06	135	70	240	0
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	270	260	-2.76	20	5	25	0
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	960	970	0.31	115	30	85	5
51-9022	Grinding and Polishing Workers, Hand	1,080	1,080	-0.23	125	30	95	0
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	2,390	2,330	-1.24	245	70	205	0
51-9031	Cutters and Trimmers, Hand	430	410	-2.34	40	20	35	0
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	1,300	1,320	0.62	170	55	105	10
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	2,740	2,800	1.11	330	110	190	30
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	930	930	0.33	100	40	60	5

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	11,250	11,190	-0.25	1,355	445	935	0
51-9071	Jewelers and Precious Stone and Metal Workers	460	470	0.87	65	30	30	5
51-9081	Dental Laboratory Technicians	930	970	1.99	135	40	75	20
51-9082	Medical Appliance Technicians	120	120	3.05	20	5	10	5
51-9083	Ophthalmic Laboratory Technicians	100	100	2.11	15	5	10	0
51-9111	Packaging and Filling Machine Operators and Tenders	3,640	3,690	0.62	450	160	265	20
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	2,000	2,040	1.08	240	60	160	20
51-9122	Painters, Transportation Equipment	1,190	1,230	1.43	150	35	95	15
51-9123	Painting, Coating, and Decorating Workers	720	730	0.56	85	20	55	5
51-9141	Semiconductor Processors	20	20	0.00	0	0	0	0
51-9151	Photographic Process Workers and Processing Machine Operators	***	***	-1.29	35	10	30	0
51-9191	Adhesive Bonding Machine Operators and Tenders	280	280	0.36	40	10	30	0
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	370	370	0.41	60	25	35	0
51-9193	Cooling and Freezing Equipment Operators and Tenders	230	230	0.22	25	10	20	0
51-9194	Etchers and Engravers	60	60	0.00	5	5	5	0
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	610	630	1.81	80	25	45	10
51-9196	Paper Goods Machine Setters, Operators, and Tenders	2,560	2,560	-0.04	275	80	200	0
51-9197	Tire Builders	2,210	2,210	0.05	230	45	185	0
51-9198	Helpers--Production Workers	17,650	18,870	3.47	3,305	970	1,720	610
51-9199	Production Workers, All Other	5,160	5,360	1.93	705	195	410	100
53-0000	Transportation and Material Moving Occupations	162,190	165,870	1.14	22,290	7,385	13,060	1,845
53-1000	Supervisors of Transportation and Material Moving Workers	7,410	7,570	1.07	880	240	560	80
53-1011	Aircraft Cargo Handling Supervisors	***	***	3.13	10	0	5	0
53-1048	First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling	7,360	7,520	1.06	875	235	560	80

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
53-2000	Air Transportation Workers	1,600	1,630	1.04	180	45	120	15
53-2011	Airline Pilots, Copilots, and Flight Engineers	290	290	-0.68	30	10	20	0
53-2012	Commercial Pilots	1,000	1,030	1.91	120	30	75	20
53-2021	Air Traffic Controllers	240	240	-0.21	20	5	15	0
53-2022	Airfield Operations Specialists	70	70	0.00	5	0	5	0
53-3000	Motor Vehicle Operators	70,720	72,140	1.01	9,020	3,425	4,880	710
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	500	520	1.70	85	30	50	10
53-3021	Bus Drivers, Transit and Intercity	1,460	1,480	0.72	195	115	70	10
53-3022	Bus Drivers, School or Special Client	9,540	9,720	0.97	1,310	750	470	90
53-3031	Driver/Sales Workers	6,390	6,420	0.29	745	265	465	20
53-3032	Heavy and Tractor-Trailer Truck Drivers	36,590	37,350	1.04	4,580	1,520	2,680	380
53-3033	Light Truck or Delivery Services Drivers	13,330	13,620	1.09	1,675	555	980	145
53-3041	Taxi Drivers and Chauffeurs	2,210	2,310	2.38	300	120	125	50
53-3099	Motor Vehicle Operators, All Other	700	720	1.00	125	70	50	5
53-4000	Rail Transportation Workers	2,160	2,190	0.67	220	50	155	15
53-4011	Locomotive Engineers	740	750	0.74	75	20	50	5
53-4012	Locomotive Firers	***	***	-7.50	0	0	0	0
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers	150	150	0.66	15	5	10	0
53-4021	Railroad Brake, Signal, and Switch Operators	210	220	1.17	20	5	15	0
53-4031	Railroad Conductors and Yardmasters	960	970	0.84	100	20	70	10
53-4099	Rail Transportation Workers, All Other	50	60	0.93	5	0	5	0
53-5000	Water Transportation Workers	500	500	0.61	60	15	40	5
53-5011	Sailors and Marine Oilers	210	210	0.48	25	5	20	0
53-5021	Captains, Mates, and Pilots of Water Vessels	210	210	0.73	20	5	15	0
53-5022	Motorboat Operators	10	10	5.00	0	0	0	0
53-5031	Ship Engineers	70	70	0.00	10	0	5	0
53-6000	Other Transportation Workers	2,860	2,930	1.25	430	125	270	35
53-6011	Bridge and Lock Tenders	***	***	0.00	10	0	5	0
53-6021	Parking Lot Attendants	450	460	1.00	75	25	45	5

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Alabama Occupational Projections 2019-2021

SOC	Occupations	Employment		Avg Annual Growth	Average Annual Job Openings			
		2019	2021		Total	Exit	Transfers	Growth
53-6031	Automotive and Watercraft Service Attendants	1,660	1,690	1.06	265	75	175	20
53-6041	Traffic Technicians	30	30	0.00	5	0	0	0
53-6051	Transportation Inspectors	***	***	2.44	55	15	30	10
53-6061	Transportation Attendants, Except Flight Attendants	***	***	4.00	5	0	0	0
53-6099	Transportation Workers, All Other	190	190	1.08	20	5	15	0
53-7000	Material Moving Workers	76,950	78,920	1.28	11,505	3,490	7,030	980
53-7011	Conveyor Operators and Tenders	300	300	0.17	35	10	25	0
53-7021	Crane and Tower Operators	1,310	1,340	1.42	170	40	110	20
53-7032	Excavating and Loading Machine and Dragline Operators	1,460	1,470	0.38	180	55	120	5
53-7033	Loading Machine Operators, Underground Mining	220	220	0.00	25	10	20	0
53-7041	Hoist and Winch Operators	70	70	-0.69	10	0	5	0
53-7051	Industrial Truck and Tractor Operators	10,600	10,820	1.04	1,315	320	885	110
53-7061	Cleaners of Vehicles and Equipment	6,060	6,180	0.99	950	305	585	60
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	44,170	45,610	1.63	6,955	2,030	4,210	720
53-7063	Machine Feeders and Offbearers	1,800	1,800	0.23	240	90	150	5
53-7064	Packers and Packagers, Hand	7,630	7,670	0.26	1,125	460	645	20
53-7072	Pump Operators, Except Wellhead Pumpers	60	60	1.67	10	0	5	0
53-7081	Refuse and Recyclable Material Collectors	2,430	2,510	1.50	375	135	205	35
53-7111	Mine Shuttle Car Operators	***	***	-2.18	5	5	5	0
53-7121	Tank Car, Truck, and Ship Loaders	620	640	1.28	90	30	50	10
53-7199	Material Moving Workers, All Other	90	90	1.11	10	5	5	0

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Methodology

The 2019 to 2021 projections of occupational employment presented here were prepared utilizing a matrix industry/occupational concept as introduced in *Tomorrow's Manpower Needs*, BLS Bulletin 1606 and its supplements. Four general steps were followed: (1) Collection and estimation of occupational staffing patterns by industry, (2) Development of projections of wage and salary employment by industry, (3) Matrix development of matching occupational staffing patterns to the projected industry growth (or decline), and (4) Calculation of estimates of replacement requirements by occupation.

The matrix system operates under a microcomputer-based software system developed and technically supported by the Utah Occupational Projections Service Center, Utah Department of Employment Security under contract with the United States Department of Labor. However, the selection of the final methodology and responsibility for the validity of the projections rests with the Alabama Department of Labor.

Occupational employment data was checked for confidentiality utilizing a BLS developed program, which screens Occupational Employment Statistics program occupational summary estimates through a set of rejection criteria. Occupations, which fail to meet the criteria, were flagged for suppression in the employment fields, but the remaining information is provided; however, published data for summary level occupations do reflect employment for suppressed occupations.

Collection Activities

The OES program generates occupational estimates on an industry-by-industry basis to determine job needs for occupational guidance and training purposes. Employers who have been randomly selected and stratified by industry and size provide occupational classification from a listing of detailed job descriptions. Nonagricultural employment is collected and estimated over a three-year cycle by state employment security agencies. Periodic publications of occupational estimates by industry are released by the Alabama Department of Labor after each survey is completed and analyzed.

To elicit a high and accurate response, the collection instruments are tailored to the industry's occupational structure. Although each survey questionnaire is limited to a maximum of 225 occupations, total employment is collected in each industry. Data on small or unusual occupations are collected in appropriate residual categories, such as "Engineers, all other" and "Extraction workers, all other."

More than 800 specific occupations have been collected for approximately 400 detailed industries. The industries are categorized by the North American Industry Classification System (NAICS) Manual at the three- and four-digit industry level. The sample is drawn from the Quarterly Census of Employment and Wages (QCEW), an employment report of the unemployment insurance system. Self-employed, unpaid family, agricultural and domestic workers are not included in the OES Survey. Occupational staffing patterns for these components are derived from 2010 Census data and other reliable sources.

Development of Industrial Projections

Employment levels for each industrial series were developed using time series analysis and are projected to the target year 2021. The final projected matrix is a blend of the occupational structure of each industry applied to the projected industry trend to 2021, as exhibited by historical employment movement at the detailed industry level. The estimates from the various OES surveys are adjusted to total employment for a single, standard reference date – in this case, 2019 OES estimates were used. In this procedure, OES survey estimates are applied to industry controls from the Current Employment Statistics Program. After adjustment to annual average industry data, the survey estimates are processed through a software application that interprets the analysts' decisions to disaggregate the residuals and regroup the data into the matrix format for the base year (2019) for approximately 290 industries and 80 summary level industries.

Matrix Development

To develop cross-industry estimates for each detailed occupation, the occupational content and size must be disaggregated from the residual category. For example, the total number of accountants would be the sum of accountants specifically collected (most industries) plus the accountants estimated in the "all other professional" category in remaining industries. Since the content of the residual categories differs from industry to industry, the estimation of total employment by occupation through simple aggregation of the survey data is not possible. Employment in the residual categories must be partially disaggregated to specific OES survey-based matrix occupations before cross-industry estimates can be tabulated. In the disaggregation process, the residuals are proportioned out using State specific occupational patterns in the 2010 Census-based matrix.

The final matrix occupation list contains approximately 700 detailed occupations and just over 100 summary level titles distributed among approximately 400 detailed industries based on industrial definitions contained in the 2017 North American Industrial Classification (NAICS) system. The survey occupational titles are arranged into the 2010 Standard Occupational Classification System (SOC). Each occupational title is assigned an SOC code based on this classification system.

Occupational Openings Methodology

To measure occupational separations for 2019-2021 projections, the Bureau of Labor Statistics has implemented a new Separations methodology. The Separations methodology was developed to better capture a more accurate picture of the workforce and give BLS the ability to differentiate between workers who are leaving the labor force entirely and those who are changing jobs and leaving an occupation.

Projections are utilized to predict what will happen in the future regarding occupations, and help stakeholders determine what areas of the economy are expected to see growth and decline. Projections help higher education professionals, labor market analysts, and employers determine what occupations will have more openings than others to best train and prepare the workforce.

Workers once entered the labor force at an early age, working until retirement in the same occupation. New, younger workers would replace them once they retired. From technology advancements and trends in the workforce, to policy updates and new standards in human resources, the U.S. labor force is vastly different. These changes in the workforce have brought about the need for a new methodology. Workers today are more likely to be transient and work in several occupations during their lifetime. The Separations methodology accounts for this workforce trend, capturing reasons workers leave an occupation other than retirement, such as changing careers, being promoted into management or completing a retraining program. The new Separations methodology comprehensively and better captures the dynamics of the workforce. As a result, the new methodology will produce more openings in low-skill jobs and jobs that require less than a post-secondary degree. Workers in occupations that require less education are less likely to stay long-term in that occupation since they do not have high levels of occupation-specific skills.

The Separations methodology incorporates past data, patterns and trends to generate employment projections. Projections from the past methodology should not be compared with projections created using the new Separations methodology. Past projections become outdated when actual employment catches up with them or new projections are released. These are no longer an accurate representation of the workforce.

Rates are the same for all states and will be applied to state-specific occupational staffing patterns. The methodology will account for the distribution of occupations by state, but not state-specific demographics. Since the Separations methodology accounts for the distribution of occupations by states and not demographics, the methodology will not need to be adapted for smaller states.