

Appendix H: Workforce Analysis

Support Document

Overview

This appendix contains supplementary information for the MACAP workforce analysis including a list of “green jobs” occupations, “green jobs” JobsEQ data, and list of existing workforce development opportunities and partners.

A Non-Exhaustive List of Occupations Associated with “Green Jobs” in Metro Atlanta

The following occupation lists were derived from sectors identified in the MACAP. Sectors and industries were searched using the [ONet Online](#) platform. The Standard Occupational Classification (SOC) codes—which are numbers associated with each occupational group—were attained from the Bureau of Labor Statistics database. This list is not exhaustive, but rather a steppingstone toward a more comprehensive assessment of the workforce associated with the MACAP climate action measures.

Electric Vehicles (and heavy and medium duty vehicles)

- Electrical and Electronics Installers and Repairers, Transportation Equipment (49-2093)
- Electrical, electronic, and electromechanical assemblers, except coil winders, tapers, and finishers (51-2028)
- Helpers, Electricians (47-3013)

Alternative Mobility

- Civil Engineers (17-2051)
- Construction and Extraction Occupations (47-0000)
- Construction Laborers (47-2061)
- Operating Engineers and Other Construction Equipment Operators (47-2073)
- Painters, Construction and Maintenance (47-2141)
- Helpers, Construction Trades, All Other (47-3019)
- Construction and Building Inspectors (47-4011)
- Miscellaneous Construction and Related Workers (47-4090)
- First-Line Supervisors of Construction Trades and Extraction Workers (47-1011)
- Construction Managers (11-9021)
- Urban and Regional Planners (19-3051)
- Landscape Architects (17-1012)

Mass Transit

- Bus Drivers, Transit and Intercity (53-3052)
- Subway and Streetcar Operators (53-4041)
- Electrical and Electronics Installers and Repairers, Transportation Equipment (49-2093)
- Audiovisual Equipment Installers and Repairers (49-2097)
- Electronic Equipment Installers and Repairers, Motor Vehicles (49-2096)
- Transportation, Storage, and Distribution Managers (11-3071)
- First-Line Supervisors of Transportation Workers, Except Aircraft Cargo Handling Supervisors (53-1047)
- Transportation Workers, All Other (53-6099)
- Transportation Inspectors (53-6051)

Energy Efficiency

- Insulation Workers, Mechanical (47-2132)
- Insulation Workers, Floor, Ceiling, and Wall (47-2131)
- Roofers (47-2181)
- Architecture and Engineering Occupations (17-0000)
- Architectural and Civil Drafters (17-3011)
- Civil Engineers (17-2051)
- Engineers, All Other (17-2199)
- Roofers (47-2181)
- Crane and Tower Operators (53-7021)
- Hoist and Winch Operators (53-7041)

Electrification

- Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)
- Coil Winders, Tapers, and Finishers (51-2021)
- Electrical, electronic, and electromechanical assemblers, except coil winders, tapers, and finishers (51-2028)

Geothermal

- Civil Engineers (17-2051)
- Construction and Extraction Occupations (47-0000)
- Construction Laborers (47-2061)
- Operating Engineers and Other Construction Equipment Operators (47-2073)
- Painters, Construction and Maintenance (47-2141)
- Helpers, Construction Trades, All Other (47-3019)
- Construction and Building Inspectors (47-4011)
- Miscellaneous Construction and Related Workers (47-4090)
- First-Line Supervisors of Construction Trades and Extraction Workers (47-1011)

- Construction Managers (11-9021)
- Electrical Engineers (17-2071)
- Plumbers, Pipefitters, and Steamfitters (47-2152)
- Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters (47-3015)

Industrial Processes

- Industrial Machinery Mechanics (49-9041)
- Industrial Truck and Tractor Operators (53-7051)
- Industrial Production Managers (11-3051)
- Industrial Engineers (17-2112)
- Materials Engineers (17-2131)
- Industrial Engineering Technologists and Technicians (17-3026)
- Commercial and Industrial Designers (27-1021)
- Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)
- Chemical Engineers (17-2041)
- Chemical Equipment Operators and Tenders (51-9011)
- Operating Engineers and Other Construction Equipment Operators (47-2073)

Recycling and Reuse

- Material Moving Workers, All Other (53-7199)
- Refuse and Recyclable Material Collectors (53-7081)

Refrigerant Management

- Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)
- Environmental Engineers (17-2081)

Working and Natural Lands

Green Infrastructure

- Environmental Scientists and Specialists, Including Health (19-2041)
- Environmental Science and Protection Technicians, Including Health (19-4042)
- Landscaping and Groundskeeping Workers (37-3011)
- Tree Trimmers and Pruners (37-3013)
- Landscape Architects (17-1012)
- Forest and Conservation Technicians (19-4071)
- Conservation Scientists (19-1031)
- Forest and Conservation Workers (45-4011)
- Urban and Regional Planners (19-3051)

Working Forests

- Foresters (19-1032)
- Forest Fire Inspectors and Prevention Specialists (33-2022)
- First-Line Supervisors of Farming, Fishing, and Forestry Workers (45-1011)
- Farming, Fishing, and Forestry Occupations (45-0000)
- Forest and Conservation Technicians (19-4071)
- Conservation Scientists (19-1031)
- Forest and Conservation Workers (45-4011)
- Urban and Regional Planners (19-3051)
- Tree Trimmers and Pruners (37-3013)

Large Scale and Rooftop Solar

- Residential Electrician
- Energy Auditor
- Solar crew leader
- Grid integration specialist
- Solar construction manager
- System design engineer

Cogeneration

- Water and Wastewater Treatment Plant and System Operators (51-8031)
- Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)
- Installation, Maintenance, and Repair Occupations (49-0000)
- Maintenance Workers, Machinery (49-9043)
- Helpers – Installation, Maintenance, and Repair Workers (49-9098)
- Heavy and Tractor-Trailer Truck Drivers (53-3032)
- Light Truck Drivers (53-3033)

Material Moving Workers, All Other (53-7199)

Atlanta MSA Occupations 5-year History and Forecast (2024) Q4

The spreadsheets on the following pages identify the occupational statistics since the fourth quarter of 2024. One is specific to varying degrees of educational attainment and the other provides occupational history and forecasts.

Special definitions are as follows:

- Exits generally refer to retirements
- Transfers imply a shift to another occupation either within or outside of the company
- Location Quotient is a geographic assessment value where > 1.0 , that means that the MSA has a greater share of those jobs than does the nation, and < 1.0 means the MSA has a smaller share than the nation.



Atlanta MSA Occupations 5-year History and Forecast (2024) Q4¹

SOC	Occupation	Current						5-Year History		5-Year Forecast				
		Employed	Mean Annual Wages ²	Location Quotient	Unemployed	Unempl Rate	Online Job Ads ³	Employment Change	Annual %	Total Demand	Exits	Transfers	Employment Growth	Annual % Growth
53-3032	Heavy and Tractor-Trailer Truck Drivers	48,118	\$62,000	1.15	1,787	3.70%	2,039	5,710	2.60%	28,637	10,391	15,460	2,786	1.10%
53-7051	Industrial Truck and Tractor Operators	31,563	\$50,500	2.13	1,587	4.90%	265	5,465	3.90%	17,534	4,949	11,052	1,534	1.00%
47-2061	Construction Laborers	25,391	\$44,700	0.93	1,553	6.00%	180	3,029	2.60%	13,641	4,242	7,252	2,147	1.60%
53-3033	Light Truck Drivers	21,553	\$51,100	1.05	783	3.60%	712	703	0.70%	13,293	4,712	7,011	1,571	1.40%
37-3011	Landscaping and Groundskeeping Workers	21,154	\$40,600	0.93	1,271	5.90%	347	442	0.40%	15,656	5,260	9,064	1,332	1.20%
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	16,679	\$82,500	1.02	442	2.70%	380	2,337	3.10%	7,920	2,664	4,085	1,171	1.40%
53-1047	First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors	14,975	\$67,800	1.31	481	3.10%	185	2,134	3.10%	8,720	2,378	5,390	952	1.20%
11-9021	Construction Managers	10,097	\$119,200	1.01	165	1.60%	926	323	0.70%	4,917	1,304	2,771	842	1.60%
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	8,285	\$62,200	0.98	170	2.10%	530	1,489	4.00%	4,402	1,250	2,454	698	1.60%
47-2073	Operating Engineers and Other Construction Equipment Operators	8,097	\$51,400	0.89	440	5.50%	93	1,260	3.40%	4,083	1,330	2,231	522	1.30%
47-2152	Plumbers, Pipefitters, and Steamfitters	6,559	\$63,900	0.72	162	2.50%	127	321	1.00%	3,364	975	1,950	439	1.30%
49-9041	Industrial Machinery Mechanics	6,370	\$69,500	0.78	105	1.60%	61	941	3.20%	3,535	1,172	1,562	801	2.40%
17-2051	Civil Engineers	6,255	\$97,900	0.95	59	0.80%	587	763	2.60%	2,314	626	1,318	369	1.20%
47-2141	Painters, Construction and Maintenance	5,894	\$49,800	0.92	381	6.60%	30	-157	-0.50%	2,797	1,001	1,408	389	1.30%
11-3071	Transportation, Storage, and Distribution Managers	4,708	\$132,000	1.18	108	2.10%	344	990	4.80%	2,429	660	1,370	400	1.60%
17-2112	Industrial Engineers	4,103	\$108,500	0.65	100	2.00%	575	588	3.10%	1,720	492	827	402	1.90%

SOC	Occupation	Current						5-Year History		5-Year Forecast				
		Employed	Mean Annual Wages ²	Location Quotient	Unemployed	Unempl Rate	Online Job Ads ³	Employment Change	Annual %	Total Demand	Exits	Transfers	Employment Growth	Annual % Growth
51-2028	Electrical, Electronic, and Electromechanical Equipment Assemblers, Except Coil Winders, Tapers, and Finishers	3,491	\$45,900	0.7	158	4.50%	44	-147	-0.80%	2,196	836	1,115	246	1.40%
53-3052	Bus Drivers, Transit and Intercity	3,129	\$51,600	0.76	144	4.70%	14	-49	-0.30%	2,112	1,151	789	173	1.10%
17-2071	Electrical Engineers	2,913	\$120,900	0.8	90	2.50%	718	215	1.50%	1,120	332	521	267	1.80%
53-7081	Refuse and Recyclable Material Collectors	2,639	\$53,400	0.95	71	2.80%	128	236	1.90%	1,774	540	1,094	140	1.00%
420700	Industrial Production Managers	2,586	\$142,500	0.6	42	1.40%	267	380	3.20%	1,094	313	639	142	1.10%
47-4011	Construction and Building Inspectors	2,536	\$72,800	0.96	27	1.00%	118	437	3.90%	1,456	745	628	83	0.60%
47-2181	Roofers	2,406	\$49,200	0.75	111	4.70%	26	262	2.30%	1,121	296	643	182	1.50%
17-2199	Engineers, All Other	2,404	\$124,100	0.81	49	1.70%	57	-179	-1.40%	851	266	443	141	1.10%
17-3011	Architectural and Civil Drafters	2,350	\$70,300	1.09	171	7.20%	237	139	1.20%	1,072	353	632	87	0.70%
49-9098	Helpers--Installation, Maintenance, and Repair Workers	2,114	\$41,800	1.06	195	9.10%	6	-181	-1.60%	1,258	469	659	130	1.20%
51-9011	Chemical Equipment Operators and Tenders	1,909	\$54,400	0.84	146	6.80%	1	382	4.60%	993	282	680	32	0.30%
51-8031	Water and Wastewater Treatment Plant and System Operators	1,565	\$57,600	0.64	7	0.50%	72	200	2.80%	729	260	458	11	0.10%
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	1,103	\$83,700	0.99	120	9.80%	46	-80	-1.40%	514	201	264	49	0.90%
37-3013	Tree Trimmers and Pruners	1,069	\$50,900	0.85	23	2.30%	28	121	2.40%	769	165	529	75	1.40%
17-3026	Industrial Engineering Technologists and Technicians	1,057	\$74,300	0.76	22	2.00%	59	6	0.10%	528	173	295	60	1.10%
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	1,040	\$41,500	1.15	93	9.10%	35	-162	-2.90%	656	171	414	70	1.30%



SOC	Occupation	Current						5-Year History		5-Year Forecast				
		Employed	Mean Annual Wages ²	Location Quotient	Unemployed	Unempl Rate	Online Job Ads ³	Employment Change	Annual %	Total Demand	Exits	Transfers	Employment Growth	Annual % Growth
19-2041	Environmental Scientists and Specialists, Including Health	992	\$104,000	0.65	19	1.50%	38	12	0.20%	534	68	400	66	1.30%
47-3019	Helpers, Construction Trades, All Other	736	\$46,000	1.33	64	8.80%	n/a	36	1.00%	468	121	294	53	1.40%
53-7021	Crane and Tower Operators	708	\$67,200	0.87	13	1.80%	15	70	2.10%	391	124	221	46	1.30%
49-2097	Audiovisual Equipment Installers and Repairers	684	\$56,400	1.33	2	0.40%	44	-243	-5.90%	361	96	238	28	0.80%
49-9043	Maintenance Workers, Machinery	668	\$60,600	0.6	5	0.80%	2	-8	-0.20%	368	165	147	55	1.60%
19-3051	Urban and Regional Planners	656	\$88,500	0.81	2	0.20%	54	46	1.50%	292	48	207	37	1.10%
19-4042	Environmental Science and Protection Technicians, Including Health	626	\$66,900	1.01	33	4.40%	31	38	1.30%	403	50	312	41	1.30%
17-2081	Environmental Engineers	605	\$108,400	0.8	7	1.00%	43	-58	-1.80%	247	87	119	41	1.30%
53-6051	Transportation Inspectors	593	\$112,800	1.29	22	3.60%	21	68	2.40%	317	106	180	31	1.00%
47-2131	Insulation Workers, Floor, Ceiling, and Wall	591	\$46,700	0.83	18	3.30%	3	18	0.60%	287	90	165	32	1.10%
47-4099	Construction and Related Workers, All Other	541	\$56,000	0.96	26	4.90%	2	-98	-3.30%	385	94	259	32	1.20%
17-1012	Landscape Architects	531	\$83,600	1.13	2	0.30%	31	20	0.80%	247	95	120	31	1.20%
27-1021	Commercial and Industrial Designers	523	\$87,200	0.83	20	2.90%	n/a	-50	-1.80%	202	63	112	26	1.00%
47-2132	Insulation Workers, Mechanical	451	\$55,100	1.01	15	3.30%	3	-34	-1.40%	225	69	126	29	1.30%
53-6099	Transportation Workers, All Other	440	\$42,800	1.92	10	2.30%	n/a	-101	-4.00%	246	78	143	24	1.10%
53-7199	Material Moving Workers, All Other	392	\$45,000	0.83	18	4.50%	4	-17	-0.80%	241	79	139	23	1.20%
17-2131	Materials Engineers	370	\$101,700	0.79	9	1.90%	9	35	2.00%	141	49	67	25	1.30%
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	346	\$79,600	0.29	13	3.50%	4	15	0.90%	272	91	159	21	1.20%
51-2021	Coil Winders, Tapers, and Finishers	300	\$56,300	1.28	13	4.40%	n/a	-55	-3.30%	158	68	90	0	0.00%
19-4071	Forest and Conservation Technicians	294	\$47,400	0.48	8	2.40%	2	38	2.80%	197	32	156	10	0.70%
19-1031	Conservation Scientists	251	\$90,200	0.55	10	3.20%	8	41	3.60%	129	25	90	15	1.10%

SOC	Occupation	Current						5-Year History		5-Year Forecast				
		Employed	Mean Annual Wages ²	Location Quotient	Unemployed	Unempl Rate	Online Job Ads ³	Employment Change	Annual %	Total Demand	Exits	Transfers	Employment Growth	Annual % Growth
53-4041	Subway and Streetcar Operators	219	\$61,700	0.85	12	5.40%	n/a	17	1.60%	119	29	78	12	1.10%
47-2231	Solar Photovoltaic Installers	205	\$55,500	0.39	28	11.30%	4	51	5.90%	142	25	84	33	3.10%
33-2022	Forest Fire Inspectors and Prevention Specialists	200	\$50,700	3.71	18	8.30%	n/a	25	2.70%	107	30	57	20	1.90%
45-4011	Forest and Conservation Workers	166	\$39,200	0.79	25	13.10%	2	19	2.50%	174	48	124	2	0.20%
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	164	\$48,700	0.96	10	5.50%	n/a	-71	-7.00%	56	28	36	-7	-0.90%
17-2041	Chemical Engineers	144	\$141,400	0.37	1	0.70%	8	-17	-2.20%	53	12	28	12	1.60%
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	143	\$62,700	0.99	2	1.70%	22	-41	-4.90%	72	27	35	10	1.40%
19-1032	Foresters	136	\$82,100	0.61	6	3.10%	4	9	1.40%	69	14	48	7	1.00%
53-7041	Hoist and Winch Operators	32	\$51,300	0.54	1	3.40%	1	5	3.50%	18	5	11	2	1.40%
47-4091	Segmental Pavers	30	\$56,000	0.97	1	4.70%	n/a	5	4.10%	21	5	14	2	1.10%
00-0000	Total - All Occupations	3,155,256	\$69,700	1	115,908	3.50%	146,992	198,477	1.30%	1,949,145	723,241	1,057,646	168,258	1.00%

Source: [JobsEQ®](#)

Data as of 2024Q4 unless noted otherwise

Note: Figures may not sum due to rounding.

1. Data based on a four-quarter moving average unless noted otherwise.

2. Wage data represent the average for all Covered Employment

3. Data represent found online ads active within the last thirty days in the selected region. Due to alternative county-assignment algorithms, ad counts in this analytic may not match that shown in RTI (nor in the popup window ad list). Ad counts for ZCTA-based regions are estimates.



Atlanta MSA Employment Educational Attainment Data

SOC	Occupation	< High School	High School	Some College	Two-Year	Four-Year	Master's	PhD	Total Employed	Avg Annual Wages	Forecast Annual Growth	Unempl Rate
11-3051	Industrial Production Managers	2.80%	14.30%	12.30%	7.00%	43.60%	17.30%	2.70%	3,013	\$142,500	1.10%	1.40%
11-3071	Transportation, Storage, and Distribution Managers	3.90%	24.00%	16.60%	9.00%	32.10%	12.70%	1.70%	4,956	\$132,000	1.60%	2.10%
11-9021	Construction Managers	6.40%	23.50%	15.30%	7.90%	36.60%	8.70%	1.50%	10,351	\$119,200	1.60%	1.60%
17-1012	Landscape Architects	0.80%	2.40%	3.10%	2.00%	58.10%	28.80%	4.80%	602	\$83,600	1.20%	0.30%
17-2041	Chemical Engineers	0.50%	2.20%	1.30%	2.60%	56.10%	27.50%	9.80%	198	\$141,400	1.60%	0.70%
17-2051	Civil Engineers	0.30%	1.20%	1.80%	2.10%	59.00%	29.00%	6.40%	6,995	\$97,900	1.20%	0.80%
17-2071	Electrical Engineers	0.30%	1.60%	2.90%	4.20%	53.00%	29.00%	9.10%	3,463	\$120,900	1.80%	2.50%
17-2081	Environmental Engineers	0.00%	1.70%	1.10%	0.80%	47.00%	41.40%	8.00%	739	\$108,400	1.30%	1.00%
17-2112	Industrial Engineers	0.60%	4.20%	4.90%	5.00%	57.10%	25.00%	3.30%	4,866	\$108,500	1.90%	2.00%
17-2131	Materials Engineers	0.20%	1.50%	4.20%	3.70%	58.60%	19.30%	12.50%	464	\$101,700	1.30%	1.90%
17-2199	Engineers, All Other	0.30%	1.80%	2.80%	3.40%	50.00%	31.00%	10.70%	2,871	\$124,100	1.10%	1.70%
17-3011	Architectural and Civil Drafters	0.80%	9.20%	17.90%	31.80%	30.70%	8.20%	1.50%	2,194	\$70,300	0.70%	7.20%
17-3026	Industrial Engineering Technologists and Technicians	3.10%	21.90%	20.40%	19.80%	26.70%	6.40%	1.70%	1,098	\$74,300	1.10%	2.00%
19-1031	Conservation Scientists	0.00%	0.00%	0.00%	0.00%	71.40%	23.80%	4.70%	320	\$90,200	1.10%	3.20%
19-1032	Foresters	0.00%	0.00%	0.00%	0.00%	71.60%	23.70%	4.70%	198	\$82,100	1.00%	3.10%

SOC	Occupation	< High School	High School	Some College	Two-Year	Four-Year	Master's	PhD	Total Employed	Avg Annual Wages	Forecast Annual Growth	Unempl Rate
19-2041	Environmental Scientists and Specialists, Including Health	0.00%	0.00%	0.00%	0.00%	57.70%	31.60%	10.70%	1,247	\$104,000	1.30%	1.50%
19-3051	Urban and Regional Planners	0.00%	0.00%	0.00%	0.00%	41.80%	53.00%	5.20%	733	\$88,500	1.10%	0.20%
19-4042	Environmental Science and Protection Technicians, Including Health	2.30%	11.60%	14.10%	8.90%	49.00%	10.50%	3.50%	725	\$66,900	1.30%	4.40%
19-4071	Forest and Conservation Technicians	2.80%	9.60%	10.50%	10.40%	45.00%	16.40%	5.30%	320	\$47,400	0.70%	2.40%
27-1021	Commercial and Industrial Designers	1.60%	2.60%	9.10%	5.80%	63.40%	17.00%	0.50%	673	\$87,200	1.00%	2.90%
33-2022	Forest Fire Inspectors and Prevention Specialists	1.90%	22.80%	21.60%	16.00%	30.40%	5.50%	1.80%	204	\$50,700	1.90%	8.30%
37-3011	Landscaping and Groundskeeping Workers	33.80%	35.00%	11.30%	5.60%	11.80%	1.90%	0.60%	20,246	\$40,600	1.20%	5.90%
37-3013	Tree Trimmers and Pruners	24.40%	39.30%	12.00%	5.50%	15.20%	2.70%	0.90%	979	\$50,900	1.40%	2.30%
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	30.10%	29.50%	12.20%	7.10%	16.90%	3.80%	0.40%	361	\$79,600	1.20%	3.50%
45-4011	Forest and Conservation Workers	22.80%	31.20%	8.70%	6.50%	21.80%	7.80%	1.10%	164	\$39,200	0.20%	13.10%



SOC	Occupation	< High School	High School	Some College	Two-Year	Four-Year	Master's	PhD	Total Employed	Avg Annual Wages	Forecast Annual Growth	Unempl Rate
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	15.70%	42.70%	16.20%	8.10%	14.00%	2.60%	0.80%	15,989	\$82,500	1.40%	2.70%
47-2061	Construction Laborers	33.50%	39.40%	11.40%	4.80%	8.70%	1.70%	0.60%	24,210	\$44,700	1.60%	6.00%
47-2073	Operating Engineers and Other Construction Equipment Operators	19.40%	54.50%	14.70%	5.90%	4.40%	0.70%	0.40%	7,530	\$51,400	1.30%	5.50%
47-2131	Insulation Workers, Floor, Ceiling, and Wall	27.60%	47.90%	9.50%	5.80%	8.80%	0.20%	0.20%	535	\$46,700	1.10%	3.30%
47-2132	Insulation Workers, Mechanical	27.60%	48.00%	9.60%	5.70%	8.80%	0.20%	0.20%	422	\$55,100	1.30%	3.30%
47-2141	Painters, Construction and Maintenance	33.30%	39.00%	10.90%	4.70%	9.70%	1.70%	0.80%	5,383	\$49,800	1.30%	6.60%
47-2152	Plumbers, Pipefitters, and Steamfitters	14.20%	46.60%	19.60%	9.60%	8.10%	1.50%	0.40%	6,271	\$63,900	1.30%	2.50%
47-2181	Roofers	43.60%	38.60%	8.30%	3.30%	4.90%	0.90%	0.40%	2,227	\$49,200	1.50%	4.70%
47-2231	Solar Photovoltaic Installers	10.00%	37.00%	21.50%	9.60%	17.60%	2.60%	1.70%	222	\$55,500	3.10%	11.30%
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	25.00%	47.10%	12.50%	5.00%	6.90%	1.70%	1.80%	932	\$41,500	1.30%	9.10%
47-3019	Helpers, Construction Trades, All Other	24.90%	47.10%	12.50%	4.90%	7.00%	1.70%	1.80%	656	\$46,000	1.40%	8.80%
47-4011	Construction and Building Inspectors	2.70%	22.40%	19.70%	12.40%	32.40%	8.70%	1.60%	2,622	\$72,800	0.60%	1.00%

SOC	Occupation	< High School	High School	Some College	Two-Year	Four-Year	Master's	PhD	Total Employed	Avg Annual Wages	Forecast Annual Growth	Unempl Rate
47-4091	Segmental Pavers	27.80%	40.90%	13.50%	5.10%	11.60%	1.00%	0.20%	29	\$56,000	1.10%	4.70%
47-4099	Construction and Related Workers, All Other	27.80%	41.50%	13.40%	5.10%	11.20%	1.00%	0.20%	501	\$56,000	1.20%	4.90%
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	4.50%	31.70%	22.80%	23.40%	14.30%	1.50%	1.70%	143	\$62,700	1.40%	1.70%
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	4.50%	31.70%	22.60%	23.40%	14.40%	1.60%	1.80%	1,103	\$83,700	0.90%	9.80%
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	4.60%	31.70%	22.60%	23.60%	14.30%	1.50%	1.70%	167	\$48,700	-0.90%	5.50%
49-2097	Audiovisual Equipment Installers and Repairers	7.40%	35.60%	26.20%	16.20%	11.70%	2.40%	0.40%	653	\$56,400	0.80%	0.40%
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	10.00%	40.20%	23.10%	15.80%	9.20%	1.20%	0.60%	7,891	\$62,200	1.60%	2.10%
49-9041	Industrial Machinery Mechanics	8.70%	41.60%	20.40%	18.00%	9.70%	1.10%	0.40%	6,354	\$69,500	2.40%	1.60%
49-9043	Maintenance Workers, Machinery	5.10%	53.70%	17.80%	14.90%	6.50%	1.90%	0.20%	660	\$60,600	1.60%	0.80%



SOC	Occupation	< High School	High School	Some College	Two-Year	Four-Year	Master's	PhD	Total Employed	Avg Annual Wages	Forecast Annual Growth	Unempl Rate
49-9098	Helpers--Installation, Maintenance, and Repair Workers	24.60%	44.80%	15.20%	3.80%	11.20%	0.50%	0.00%	1,938	\$41,800	1.20%	9.10%
51-2021	Coil Winders, Tapers, and Finishers	15.80%	48.60%	16.50%	9.90%	7.70%	0.90%	0.60%	289	\$56,300	0.00%	4.40%
51-2028	Electrical, Electronic, and Electromechanical Equipment Assemblers, Except Coil Winders, Tapers, and Finishers	16.50%	45.80%	16.40%	10.30%	9.20%	1.10%	0.70%	3,390	\$45,900	1.40%	4.50%
51-8031	Water and Wastewater Treatment Plant and System Operators	4.40%	39.00%	23.50%	12.90%	16.30%	3.30%	0.50%	1,550	\$57,600	0.10%	0.50%
51-9011	Chemical Equipment Operators and Tenders	5.40%	27.30%	17.80%	10.10%	30.00%	7.30%	2.10%	2,018	\$54,400	0.30%	6.80%
53-1047	First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors	7.50%	34.70%	20.40%	10.00%	22.40%	4.20%	0.80%	14,821	\$67,800	1.20%	3.10%
53-3032	Heavy and Tractor-Trailer Truck Drivers	14.70%	47.50%	17.50%	7.50%	10.10%	2.10%	0.60%	47,117	\$62,000	1.10%	3.70%
53-3033	Light Truck Drivers	14.80%	47.20%	17.50%	7.50%	10.20%	2.10%	0.60%	20,800	\$51,100	1.40%	3.60%
53-3052	Bus Drivers, Transit and Intercity	8.90%	40.00%	21.50%	11.20%	14.60%	2.90%	0.90%	2,948	\$51,600	1.10%	4.70%

SOC	Occupation	< High School	High School	Some College	Two-Year	Four-Year	Master's	PhD	Total Employed	Avg Annual Wages	Forecast Annual Growth	Unempl Rate
53-4041	Subway and Streetcar Operators	3.20%	45.60%	21.60%	8.30%	17.40%	3.00%	0.90%	211	\$61,700	1.10%	5.40%
53-6051	Transportation Inspectors	3.90%	28.70%	22.80%	18.60%	19.00%	5.70%	1.40%	577	\$112,800	1.00%	3.60%
53-6099	Transportation Workers, All Other	4.10%	27.00%	18.30%	10.40%	22.70%	14.20%	3.30%	435	\$42,800	1.10%	2.30%
53-7021	Crane and Tower Operators	12.00%	55.10%	19.70%	8.40%	4.20%	0.60%	0.00%	677	\$67,200	1.30%	1.80%
53-7041	Hoist and Winch Operators	18.30%	52.30%	14.80%	7.90%	5.20%	1.30%	0.20%	33	\$51,300	1.40%	3.40%
53-7051	Industrial Truck and Tractor Operators	18.90%	53.90%	14.50%	5.70%	5.60%	1.10%	0.40%	30,688	\$50,500	1.00%	4.90%
53-7081	Refuse and Recyclable Material Collectors	24.30%	49.90%	12.30%	3.90%	7.70%	1.10%	0.70%	2,423	\$53,400	1.00%	2.80%
53-7199	Material Moving Workers, All Other	13.80%	53.00%	14.90%	6.70%	9.30%	1.60%	0.70%	382	\$45,000	1.20%	4.50%
00-0000	Total - All Occupations	7.10%	22.80%	13.90%	8.90%	30.30%	12.50%	4.50%	3,234,874	\$69,700	1.00%	3.50%

Source: [JobsEQ®](#)

Data as of 2024Q4 unless noted otherwise

Note: Figures may not sum due to rounding.



“Green Jobs” Report, July 2025

The following JobsEQ report includes a list of “Green Jobs” in the Atlanta MSA and statistical snapshots of multiple variables, including but not limited to employment demand, geographic distribution, and occupational supply deficits. The lists of the top 10 expected deficiencies in skills and certifications across the “Green Jobs” aggregate were drawn from this report. Below, please find a range of data and analysis notes from the JobsEQ Chmura workforce analysis platform.



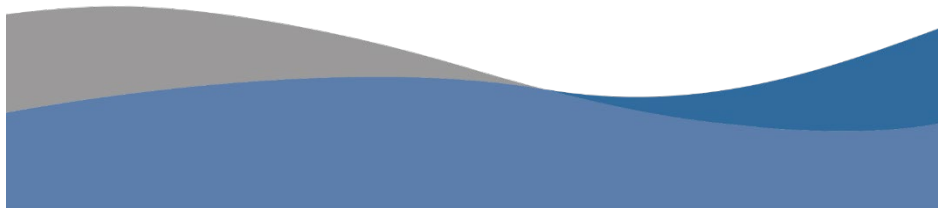
Occupation Report

Green Jobs (July 2025)

Atlanta-Sandy Springs-Roswell, GA MSA

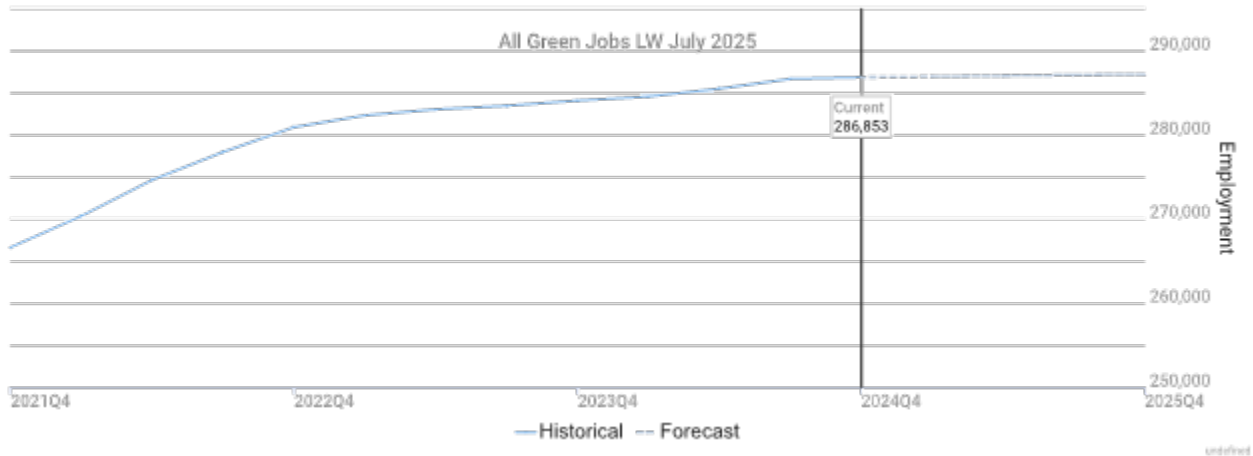


Source: [JobsEQ®](http://www.chmuraecon.com/jobseq), <http://www.chmuraecon.com/jobseq>
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Occupation Snapshot

6-Digit Occupation	Empl	Avg Mean Wages	LQ	3-Year Empl Change	Annual Demand	Forecast Ann Growth
Heavy and Tractor-Trailer Truck Drivers	48,118	\$62,000	1.15	3,433	5,657	1.1%
Industrial Truck and Tractor Operators	31,563	\$50,500	2.13	4,847	3,471	1.0%
Construction Laborers	25,391	\$44,700	0.93	2,268	2,677	1.6%
Light Truck Drivers	21,553	\$51,100	1.05	-964	2,617	1.4%
Landscaping and Groundskeeping Workers	21,154	\$40,600	0.93	7	3,090	1.2%
First-Line Supervisors of Construction Trades and Extraction Workers	16,679	\$82,500	1.02	2,056	1,560	1.4%
First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors	14,975	\$67,800	1.31	1,757	1,720	1.2%
Construction Managers	10,097	\$119,200	1.01	136	965	1.6%
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	8,285	\$62,200	0.98	910	864	1.6%
Operating Engineers and Other Construction Equipment Operators	8,097	\$51,400	0.89	1,160	805	1.3%
Remaining Component Occupations	80,937	\$77,200	0.92	4,601	8,150	1.3%
All Green Jobs LW July 2025	286,853	\$64,300	1.02	20,206	31,572	1.3%



“Annual Demand” is the projected need for new entrants into an occupation. New entrants are needed due to expected growth and to replace workers who left the occupation due to factors such as retirement or switching careers.



“Forecast Ann Growth” is the expected change in jobs due to national, long-term trend projections (per the BLS) as well as local factors such as industry mix and population growth (as computed and modeled by Chmura).

Employment by Industry

Industry Title	% of Occ Empl	Empl	10-Year Separations	10-Year Empl Growth	10-Year Total Demand
General Freight Trucking	8.3%	23,711	24,999	2,097	27,096
Building Equipment Contractors	7.0%	20,112	18,194	3,240	21,434
Warehousing and Storage	6.6%	18,991	19,665	2,809	22,474
Services to Buildings and Dwellings	5.4%	15,493	20,562	2,059	22,621
Other Specialty Trade Contractors	5.3%	15,330	14,397	2,777	17,174
Residential Building Construction	4.0%	11,439	9,777	1,953	11,731
Architectural, Engineering, and Related Services	3.9%	11,299	8,623	1,176	9,798
Couriers and Express Delivery Services	3.7%	10,486	11,495	1,954	13,449
Nonresidential Building Construction	3.2%	9,247	7,764	1,344	9,108
Building Finishing Contractors	3.1%	8,941	7,599	1,221	8,820
Foundation, Structure, and Building Exterior Contractors	3.1%	8,777	7,552	1,423	8,975
Executive, Legislative, and Other General Government Support	2.8%	8,155	8,117	875	8,992
Employment Services	2.1%	6,035	5,926	553	6,479
Utility System Construction	1.9%	5,570	5,028	975	6,004
Specialized Freight Trucking	1.7%	4,933	5,256	557	5,813
Highway, Street, and Bridge Construction	1.6%	4,603	4,123	586	4,709
Grocery and Related Product Merchant Wholesalers	1.2%	3,569	3,719	386	4,105
Scheduled Air Transportation	1.1%	3,260	3,248	236	3,483
Management of Companies and Enterprises	1.1%	3,059	2,588	454	3,041
Waste Collection	1.0%	2,928	3,443	454	3,896
All Others	31.7%	90,916	90,692	12,216	102,908



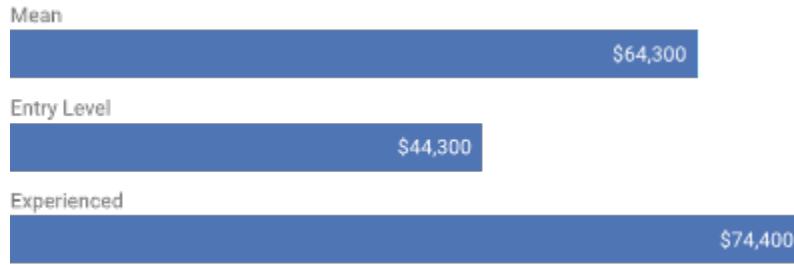
The industry distribution indicates the industries in which workers in the occupation(s) are primarily found.



“10-Year Empl Growth” may show industries with positive as well as negative growth; this would indicate that the occupation(s) being examined are expected to expand within some industries while contracting in others.



Wages



Occupation	Mean	Median	Entry Level	Experienced
Industrial Production Managers	\$142,500	\$130,500	\$86,200	\$170,700
Chemical Engineers	\$141,400	\$138,500	\$77,200	\$173,500
Transportation, Storage, and Distribution Managers	\$132,000	\$118,400	\$75,600	\$160,300
Engineers, All Other	\$124,100	\$127,700	\$68,500	\$151,800
Electrical Engineers	\$120,900	\$111,600	\$75,400	\$143,600
Construction Managers	\$119,200	\$108,400	\$73,000	\$142,300
Transportation Inspectors	\$112,800	\$117,400	\$62,600	\$138,000
Industrial Engineers	\$108,500	\$103,800	\$76,200	\$124,700
Environmental Engineers	\$108,400	\$101,000	\$68,200	\$128,500
Environmental Scientists and Specialists, Including Health	\$104,000	\$88,400	\$59,600	\$126,100



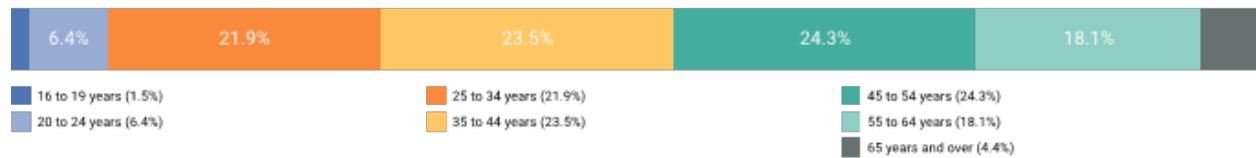
Occupation wages here utilize BLS OEWS data, imputed and brought forward by Chmura.



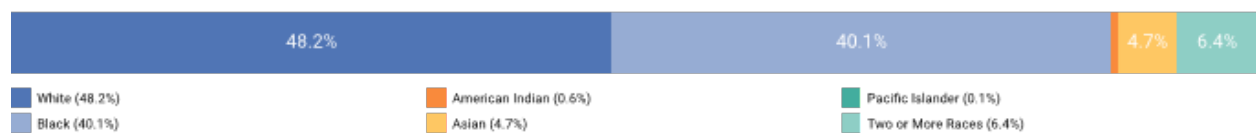
When this report is run for an occupation group, the table above displays up to the top ten detailed occupations which have the highest average wages within the occupation group.

Occupation Demographics

Age



Race



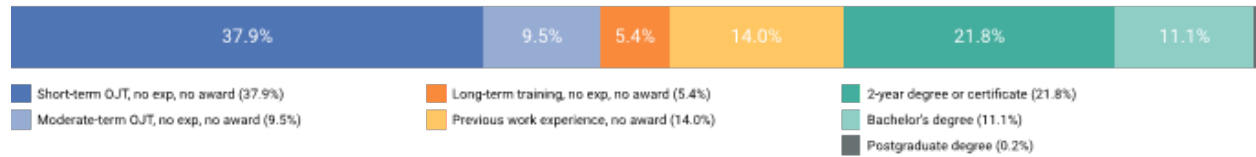
Ethnicity



Gender

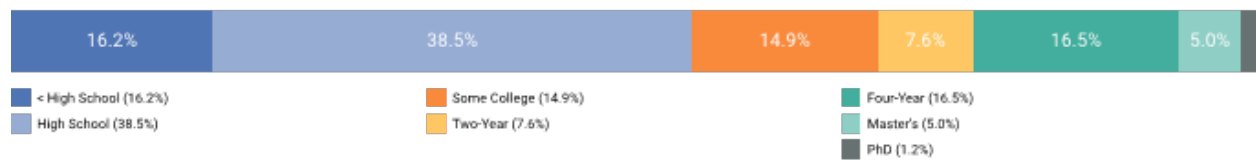


Education and Training Requirements



Education Profile

Educational Attainment



Occupation	Typical Entry-Level Education	Previous Work Experience	Typical On-the-Job Training
Heavy and Tractor-Trailer Truck Drivers	Postsecondary non-degree award	None	Short-term on-the-job training
Industrial Truck and Tractor Operators	None	None	Short-term on-the-job training
Construction Laborers	None	None	Short-term on-the-job training
Light Truck Drivers	High school diploma or equivalent	None	Short-term on-the-job training
Landscaping and Groundskeeping Workers	None	None	Short-term on-the-job training
First-Line Supervisors of Construction Trades and Extraction Workers	High school diploma or equivalent	5 years or more	None
First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors	High school diploma or equivalent	Less than 5 years	None
Construction Managers	Bachelor's degree	None	Moderate-term on-the-job training
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Postsecondary non-degree award	None	Long-term on-the-job training




Operating Engineers and Other Construction Equipment Operators	High school diploma or equivalent	None	Moderate-term on-the-job training
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 The stacked bar chart here illustrates the estimated mix of educational attainment of the workers in this occupation(s) in aggregate.

 The table indicates typical education and training requirements rather than the mix of attainment of workers in such positions.

Postsecondary Programs Linked to All Green Jobs July 2025

Program	Awards
Atlanta Technical College	
Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician	102
Chattahoochee Technical College	
Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician	154
Georgia Institute of Technology-Main Campus	
Civil Engineering, General	197
Electrical and Electronics Engineering	590
Industrial Engineering	462
Georgia Piedmont Technical College	
Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician	106
Gwinnett Technical College	
Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician	79
United Education Institute-Morrow	
Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician	118
United Education Institute-Stone Mountain	
Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician	44
West Georgia Technical College	
Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician	97

 The number of graduates from postsecondary programs in the region identifies the pipeline of future workers as well as the training capacity to support industry demand.

 Among postsecondary programs at schools located in the Atlanta-Sandy Springs-Roswell, GA MSA, the sampling above identifies those most linked to All Green Jobs LW July 2025. For a complete list see JobsEQ®, <http://www.chmuraecon.com/jobseq>

Top Skill and Certification Gaps

Top 10 Skill Gaps in Atlanta-Sandy Springs-Roswell, GA MSA			
Name	Candidates	Openings	Gap
Microsoft Office	1,500	1,897	-398
Landscaping	865	1,216	-350
Power Tools	467	786	-319
Spanish	477	674	-197
Backhoes	278	462	-184
Cabling	31	191	-160
Manufacturing	892	1,043	-151
Autodesk AutoCAD	578	699	-121
Tape Measures	5	123	-117
Cherry Pickers	455	562	-107

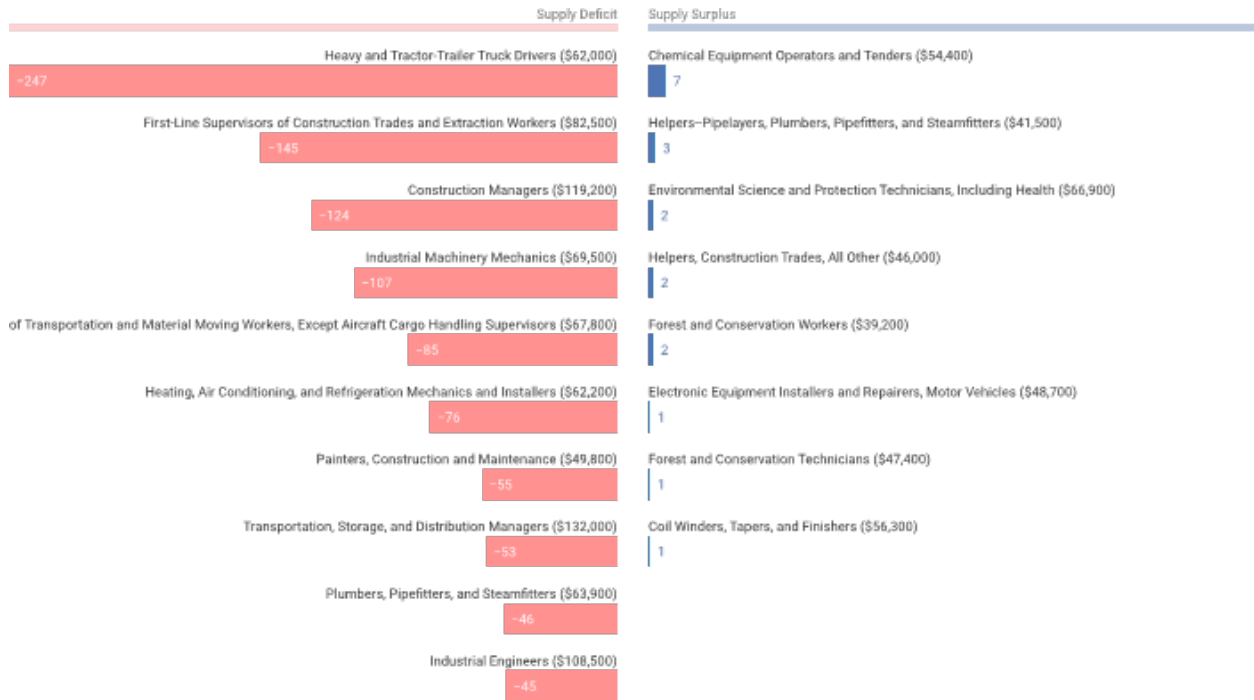
Top 10 Certification Gaps in Atlanta-Sandy Springs-Roswell, GA MSA			
Name	Candidates	Openings	Gap
Commercial Driver's License (CDL)	1,495	2,048	-553
Class A Commercial Driver's License (CDL-A)	1,141	1,408	-267
Forklift Certified	520	688	-169
OSHA 10	82	134	-52
National Center for Construction Education & Research Certification (NCCER)	3	21	-18
OSHA 30	86	102	-16
Transportation Worker Identification Credential (TWIC)	60	71	-11
Engineer in Training (EIT)	126	134	-8
Certified Arborist	12	19	-7
Certified Crane Operator (NCCCO) (not specified)	25	32	-7





Skill and certifications gaps can help inform employee development programs, as well as provide a comparison of the needs of regional employers to the supply.

Occupation Gaps

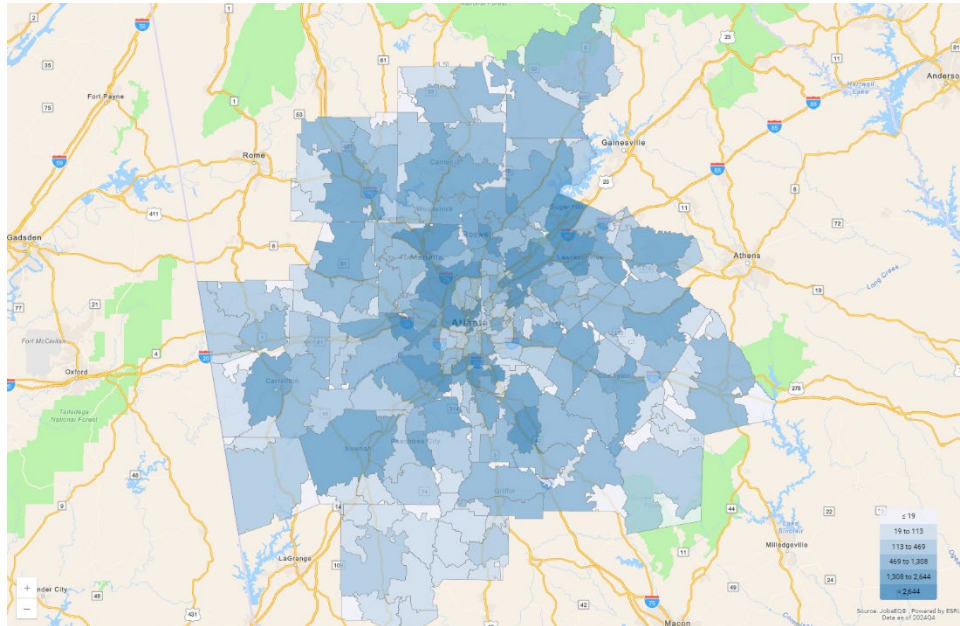


The above are the potential average annual gaps over 10 years. Many variables go into this analysis, but at its core it is based on a forecast comparing occupation demand growth to the local population growth and the projected educational attainment of those residents. When an area, for example, has an occupation expected to grow quickly but the educational requirement for the occupation does not match well with the educational attainment of its residents, there is a high potential for an occupation shortfall in the region. Alternatively, slow-growing or contracting occupations often represent potential supply surpluses.



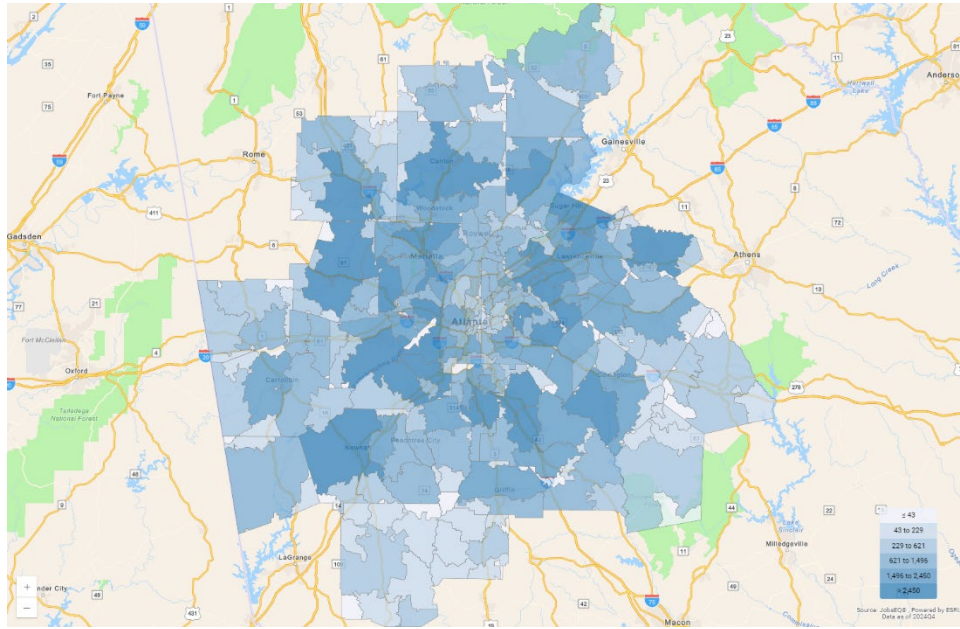
The potential supply shortfall is an underlying force that the market needs to resolve one way or another, such as by employers recruiting from further distances for these occupations, wages going up to attract more candidates, and/or increased demand and wages enticing more local residents to get training for these occupations. While this an important analysis for determining local occupation needs, the occupation gap should be considered along with other regional data including growth and separation forecasts, unemployment rates, wage trends, and award and skill gap analyses.

Geographic Distribution



Top ZCTAs by Place of Work for All Green Jobs July 2025, 2024Q4	
Region	Employment
ZCTA 30349 (Fulton County, Georgia portion)	6,649
ZCTA 30071	6,606
ZCTA 30336	6,081
ZCTA 30144	5,955
ZCTA 30096	5,545
ZCTA 30024 (Gwinnett County, Georgia portion)	5,495
ZCTA 30339 (Cobb County, Georgia portion)	5,164
ZCTA 30328	4,666
ZCTA 30294 (Clayton County, Georgia portion)	4,606
ZCTA 30082	4,152



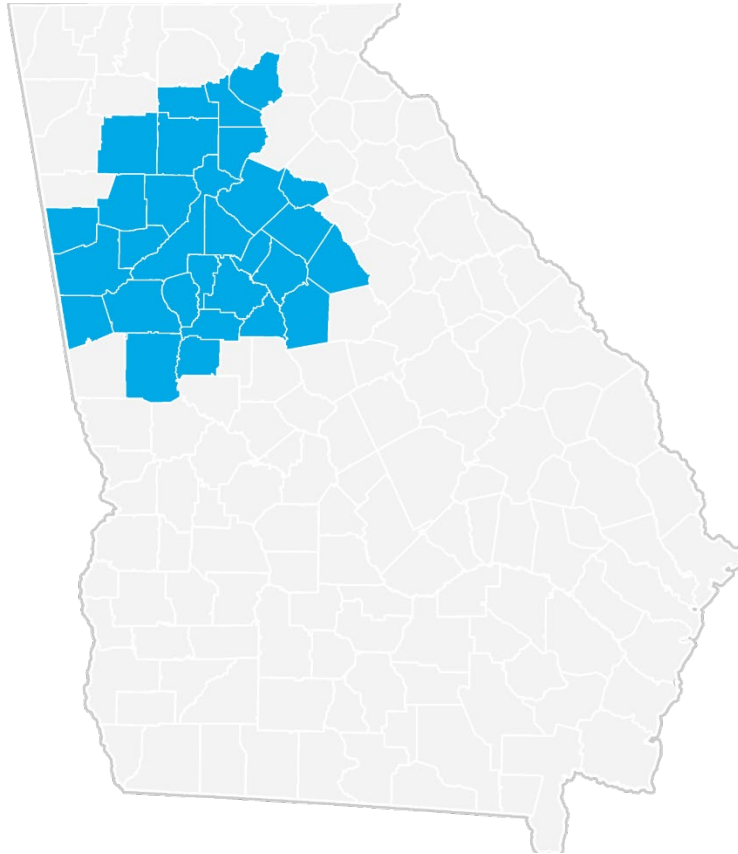


Top ZCTAs by Place of Residence for All Green Jobs LW July 2025, 2024Q4	
Region	Employment
ZCTA 30044	6,005
ZCTA 30043	4,214
ZCTA 30093	4,075
ZCTA 30047	3,750
ZCTA 30096	3,739
ZCTA 30135	3,612
ZCTA 30083	3,479
ZCTA 30349 (Fulton County, Georgia portion)	3,324
ZCTA 30263 (Coweta County, Georgia portion)	3,253
ZCTA 30281 (Henry County, Georgia portion)	3,239



“Place of work” employment is based upon the location of employers for these workers. “Place of residence” data refers to the home locations of the workforce, which is typically the preferred data set to use when calculating labor availability within a drive-time or radius of a potential worksite.

Atlanta-Sandy Springs-Roswell, GA MSA Regional Map



Data Notes

- Occupation employment by default indicates employment by place of work. Occupation employment is as of 2024Q4 and is based on industry employment and local staffing patterns calculated by Chmura and utilizing BLS OEWS data. Employment forecasts are modeled by Chmura and are consistent with BLS national-level 10-year forecasts. Wages by occupation are as of 2024Q4, utilizing BLS OEWS data, imputed and brought forward by Chmura. Entry-level and experienced wages are derived from these source data, computed by Chmura.
- Industry employment is as of 2024Q4 and is based upon BLS QCEW data, imputed by Chmura where necessary, and supplemented by additional sources including Census ZBP data.
- Education and training requirements are from the BLS. Educational attainment mix and other occupation demographics data are modeled by Chmura for 2024Q4 using regional occupation employment from JobsEQ, ZCTA-level demographics data from the Census Bureau, and national occupation-demographics patterns from the BLS.
- Postsecondary awards are per the NCES and are for the 2022-2023 academic year. Any programs shown are linked with the occupation(s) being analyzed via the program-occupation crosswalk, which may not be comprehensive. Any programs shown reflect only data reported to the NCES; reporting is required of all Title IV schools. Training providers that do not report data to the NCES are not reflected.



- Job ads data are online job posts from the Real-Time Intelligence (RTI) data set, produced by Chmura and gleaned from over 49,000 websites. Data reflect ads active during the 12-month period ending 07/12/2025 and advertised for any Zip Code Tabulation Area in or intersecting with the region for which this report was produced. Historical ad volume is revised as additional data are made available and processed. Since many extraneous factors can affect short-term volume of online job postings, time-series data can be volatile and should be used with caution. All ad counts represent deduplicated figures and exclude ads from staffing companies.
- For skill and certification gaps, openings and candidates are based upon regional occupation demand (growth plus separations) and the percent of skill demand and supply. Skill demand mix data are per a one-year sample of RTI data; skill supply data are estimated using a five-year sample of resumes data; both data sets compiled as of March 2025. Data may be based, at least in part, on data from broader geographies; see the Skill Gaps analytic export for more details.
- Occupation gaps are modeled by Chmura, indicating long-term potential supply and demand mismatches in a region due, in part, to job demand and labor pool dynamics, including educational attainment and projected growth.
- Occupation employment by place of residence is as of 2024Q4 and modeled by Chmura based upon occupation employment by place of work and commuting patterns. Commuting patterns are derived from source data from the Census Bureau, occupation-specific commuting tendencies, and updated to reflect more recent population and employment estimates.
- Figures may not sum due to rounding.

Region Definition

Atlanta-Sandy Springs-Roswell, GA MSA is defined as the following counties:	
Barrow County, Georgia	Haralson County, Georgia
Bartow County, Georgia	Heard County, Georgia
Butts County, Georgia	Henry County, Georgia
Carroll County, Georgia	Jasper County, Georgia
Cherokee County, Georgia	Lumpkin County, Georgia
Clayton County, Georgia	Meriwether County, Georgia
Cobb County, Georgia	Morgan County, Georgia
Coweta County, Georgia	Newton County, Georgia
Dawson County, Georgia	Paulding County, Georgia
DeKalb County, Georgia	Pickens County, Georgia
Douglas County, Georgia	Pike County, Georgia
Fayette County, Georgia	Rockdale County, Georgia
Forsyth County, Georgia	Spalding County, Georgia
Fulton County, Georgia	Walton County, Georgia
Gwinnett County, Georgia	

FAQ

What is (LQ) location quotient?

Location quotient is a measurement of concentration in comparison to the nation. An LQ of 1.00 indicates a region has the same concentration of an industry (or occupation) as the nation. An LQ of 2.00 would mean the region has twice the expected employment compared to the nation and an LQ of 0.50 would mean the region has half the expected employment in comparison to the nation.

What is annual demand?

Annual demand is the sum of the annual projected growth demand and separation demand. Separation demand is the number of jobs required due to separations—labor force exits (including retirements) and turnover resulting from workers moving from one occupation into another. Note that separation demand does not include all turnover—it does not include when workers stay in the same occupation but switch employers. Growth demand is the increase or decrease of jobs expected due to expansion or contraction of the overall number of jobs.

Source: [JobsEQ®](http://www.chmuraecon.com/jobseq), <http://www.chmuraecon.com/jobseq>
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Workforce Development Programs: Educational Opportunities, Apprenticeships, and Economic Development Support

The following section contains additional resources, educational opportunities, economic development options and workforce development programs. These were obtained through MSA-wide research from the Green Workforce Connect, City of Atlanta, Georgia Forestry Commission, and the Technology Association of Georgia.

Transportation

- Goodwill Clean Tech Accelerator
<https://www.goodwill.org/clean-tech/>
- Mississippi Alabama Georgia Network for EV Technologies, or “MAGNET Project”
https://www.naseo.org/data/sites/1/documents/publications/Building%20an%20EV%20Workforce_v3.pdf
- EV Professional Technical Certificate of Credit program at Savannah Technical College (Georgia) in collaboration with Hyundai
<https://www.savannahtech.edu/hyundai-job-training/>
- Gwinnett Technical College Hybrid Electric Vehicle Service Technician
<https://gwinnetttech.edu/hybrid-evtechnician/>
- Ford ASSET and Gwinnett Technical College Automotive Service Technician Training
<https://www.newfordtech.com/Programs/Asset/Overview>
- University of Georgia’s School of Electrical and Computer Engineering: Electric Mobility Certificate
<https://bulletin.uga.edu/Program/Details/85217?IDc=FENGR>

Buildings

- GEFA Building Operator Certification Scholarship
<https://gefa.georgia.gov/energy-programs/state-energy-program>
- Goodwill Clean Tech Accelerator
<https://www.goodwill.org/clean-tech/>
- Sustainable Georgia Futures Apprenticeship
<https://sustainablegafutures.org/fellowship-program/>
- Atlanta Technical College A/C Technology
<https://atlantatech.smartcatalogiq.com/en/2022-2023/college-catalog/programs-of-study/air-conditioning-technology>
- CareerRise Westside Works
<https://westsideworks.org/training/>
- Georgia Building Trades Academy: YouthBuild
<https://youthbuild.org/georgia-building-trades-academy-youthbuild/>
- Black Sustainability Registered Apprenticeship Program
<https://www.blacksustainability.org/initiatives>

- Southface Green Building, Energy Code Performance Testing, and Building Operations trainings
<https://www.southface.org/training/>
- Construction Ready Program
<https://constructionready.org/>

Industry

- Gwinnett Technical College Certified Manufacturing Associate (CMfgA)
<https://careertraining.gwinnetttech.edu/training-programs/certified-manufacturing-associate-cmfga/>
- West Georgia Technical College Certified Manufacturing Associate (CMfgA)
<https://careertraining.westgatech.edu/training-programs/certified-manufacturing-technologist-cmfgt-voucher/>
- Manufacturing Skill Standards Council (MSSC) Certifications & Training
<https://www.msscusa.org/>
- SME Certification Programs
<https://www.sme.org/training/certifications/>
- Tooling U-SME Manufacturing Training
<https://learn.toolingu.com/catalog-landing/?n=12>

Energy

- Independent Electrical Contractors of Atlanta and Georgia
<https://iecatlantaga.org/apprenticeship/>
- United Education Institute: Electrician Technician Program
<https://www.uei.edu/trade-school/georgia/morrow/electrician-technician-in-morrow/>
- Goodwill Industries Electrical Line worker training
<https://goodwillng.org/electrical-lineworker/>
- Lanier Technical College Electrical Systems Technology
<https://www.laniertech.edu/programs/building-electrical-manufacturing/electrical-systems-technology/>
- Lincoln Tech: East Point and Marietta Electrical Trades
<https://info.lincolntech-usa.com/programs/skilled-trades/electrical/>
- Southern Crescent Technical College: Photovoltaic Systems Installation and Repair Technician Certificate
<https://sctech.smartcatalogiq.com/en/current/catalog/technical-and-industrial-programs/ps11-photovoltaic-systems-installation-and-repair-technician-technical-certificate-of-credit/>
- Cherry Street Energy: Shine On
<https://www.cherrystreet.com/shine-on>



- City of Atlanta WeatherRISE ATL
<https://www.100atl.com/weatherise-atl>
- Georgia Power Lineworker Entry Program
<https://www.georgiapower.com/about/company/careers/lineworker-entry.html>

Waste & Materials

- Georgia Composting Council Programs and Training
<https://georgiarecycles.org/usccgeorgia-2/georgia-compost-council-training/>
- Lifecycle Building Center: Breaking Barriers through Deconstruction
<https://www.lifecyclebuildingcenter.org/rebuildatl>
- Solid Waste Association of North America – Training & Certification
<https://swana.org/training-certification>
- U.S. Composting Council Certifications
<https://certificationsuscc.org/>

Trees & Greenspace

- Greening Youth Foundation: Tree Care
<https://gyfoundation.org/programmes/tree-care-program/>
- Student Conservation Association
<https://thesca.org/join-the-crew>
- Eco Addendum: Greenspace Restoration Corps
<https://www.ecoaddendum.org/eco-greenspace-restoration-corps/>

Additional Resources for Apprenticeships and Career Pathways

- Interstate Renewable Energy Council: Green Workforce Connect
<https://greenworkforceconnect.org/georgia/>
- Technical College System of Georgia: Apprenticeships
<https://www.tcsgeorgia.edu/worksource/resources-for-practitioners/apprentice/>
- Atlanta Green Buildings Career Map
<https://atlbuildings.careerpathplatform.com/map/>
- Skills USA Georgia
<https://www.skillsusa.org/georgia/>

Economic Development Programs, Business Incubators and Trade Associations

- ATL Cleantech Connect
<https://research.gatech.edu/energy/atlcleantechconnect>
- ATL Cleantech Coalition
<https://research.gatech.edu/atlcleantech-connect-april-30-2025>
- B Local Georgia
<https://www.blocalgeorgia.com/>

- Clean Cities Georgia
<https://www.cleancitiesgeorgia.org/>
- Clean Energy Roadshow
<https://cleanenergyroadshow.com/>
- Conscious Capitalism Atlanta
<https://www.consciouscapitalism.org/chapter/atlanta>
- Drawdown GA Business Compact
<https://www.drawdownga.org/initiative/drawdown-georgia-business-compact/>
- E2 Southeast Chapter GA Dept of Economic Development
<https://e2.org/chapters/>
- Electric Mobility & Innovation Alliance
<https://georgia.org/EMIA>
- Georgia Center of Innovation
<https://georgia.org/center-of-innovation>
- Georgia Cleantech Innovation Hub
<https://gacth.org/about/>
- Georgia Energy Services Coalition Chapter
<https://ga.energyservicescoalition.org/>
- Georgia EV Braintrust
- Georgia Solar Energy Industries Association (GASEIA)
<https://www.gaseia.org/>
- Green Power EMC
<https://greenpoweremc.com/>
- Invest ATL
<https://www.investatlanta.com/>
- Metro Atlanta Chamber: Cleantech
<https://metroatlantachamber.com/built-for-business/key-industries/cleantech/>
- TAG Smart Communities & Sustainability Society
<https://www.tagonline.org/societies/smart-communities-sustainability/>

