

Construction Technologies Career Field In-Demand Jobs Data

The Construction Technologies Career Field prepares students for careers in designing, planning, managing, building and maintaining commercial, industrial and residential structures and infrastructures. Students in the Construction Technologies career field may continue into registered apprenticeships or traditional postsecondary programs. The list of careers used in the figures below can be found in the Appendix.

Figure 1.

Projected Growth of Construction Jobs in Ohio (2031)

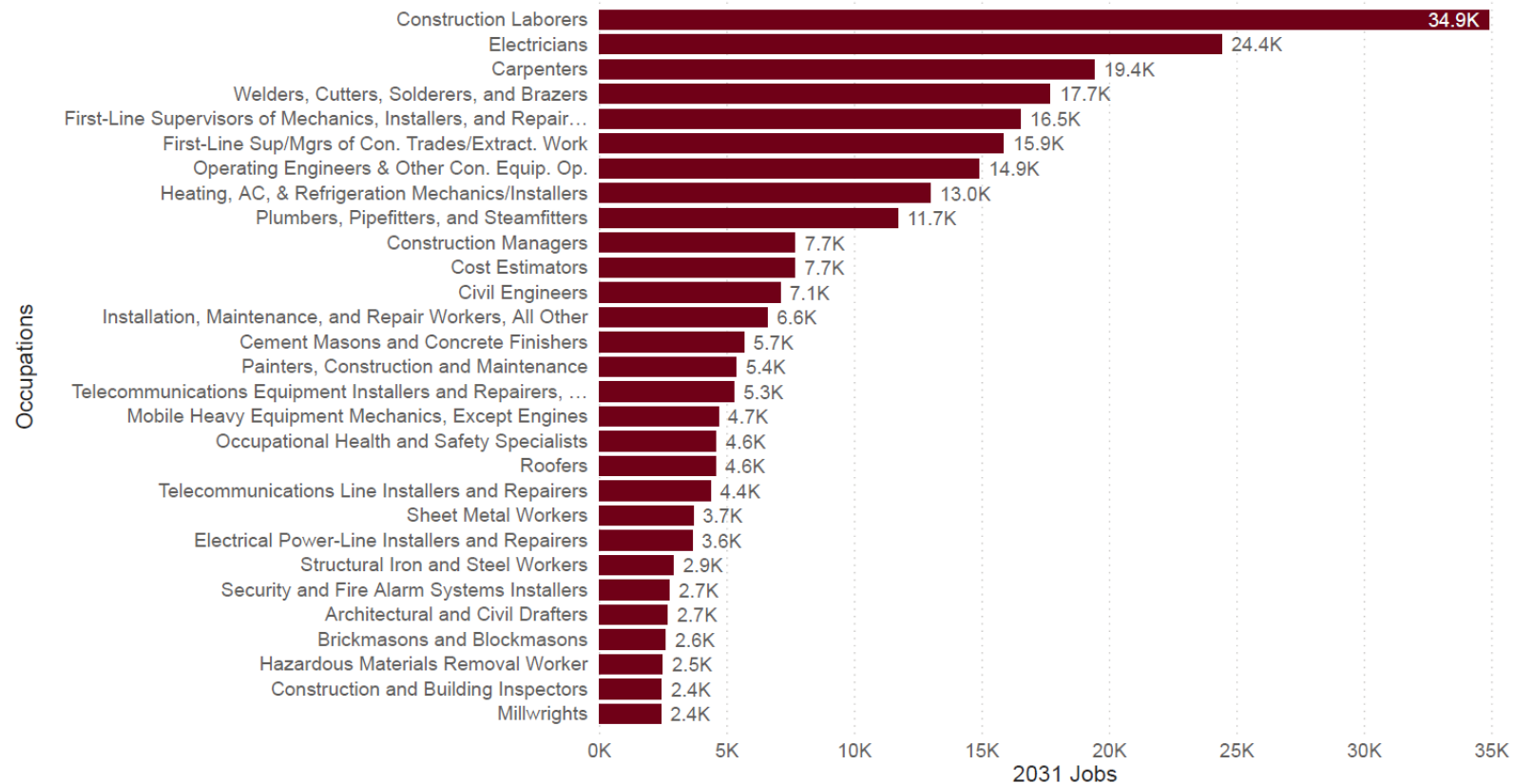


Figure 1 shows the highest in-demand occupations projected for 2031 in the Construction career field, with construction laborers topping the list with almost 35,000 jobs in Ohio.

Figure 2.

Projected Growth of Construction Jobs in Ohio (2021-2031)

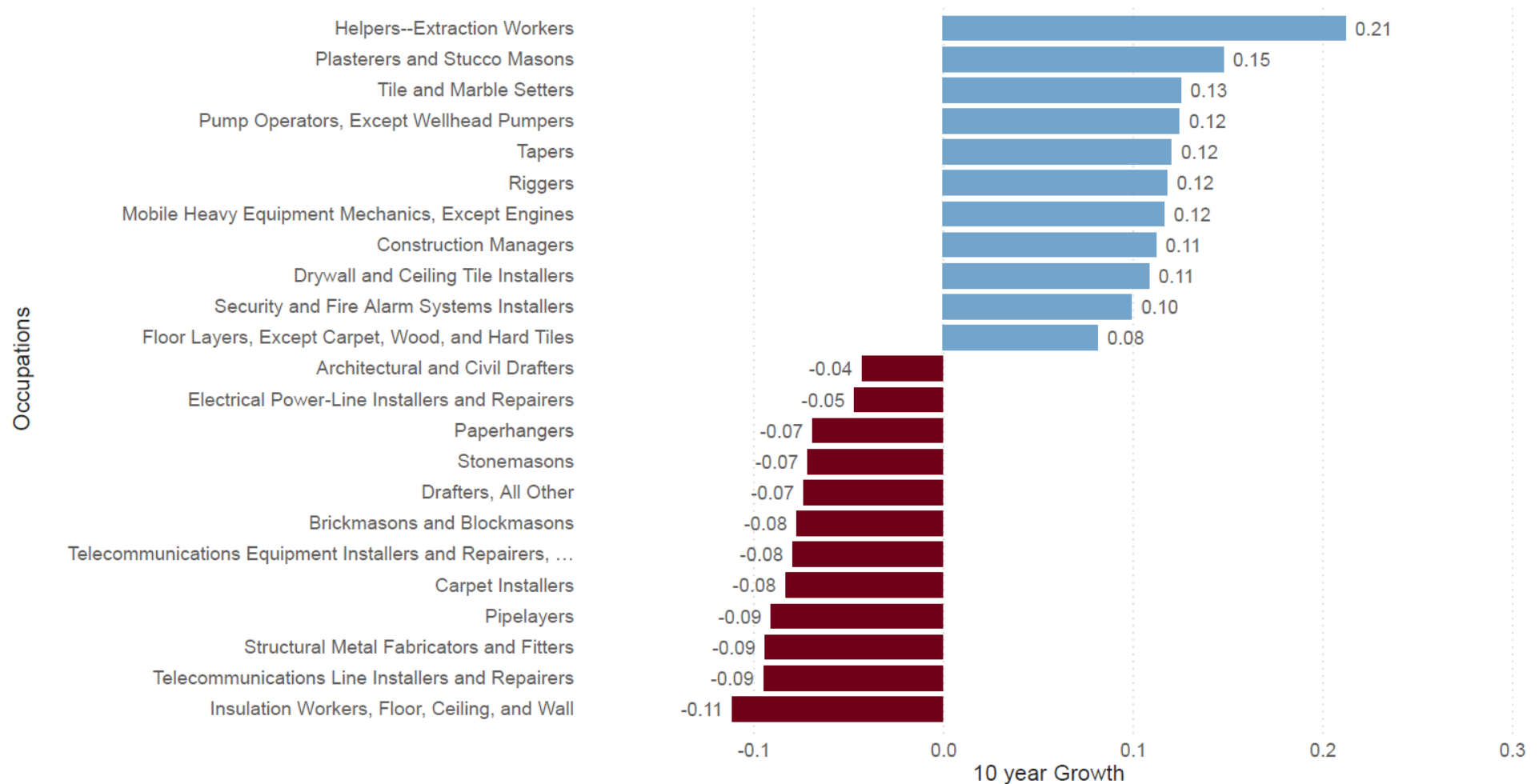


Figure 2 demonstrates the projected growth over the next ten years as a percentage. The blue represents positive growth, with the highest projected growth of 21% in helpers-extraction workers. The red represents negative growth or a decrease in the number of jobs, with the greatest expected decrease in insulation workers, floor, ceiling and wall.

Figure 3.

Top Companies for Construction Jobs in Ohio

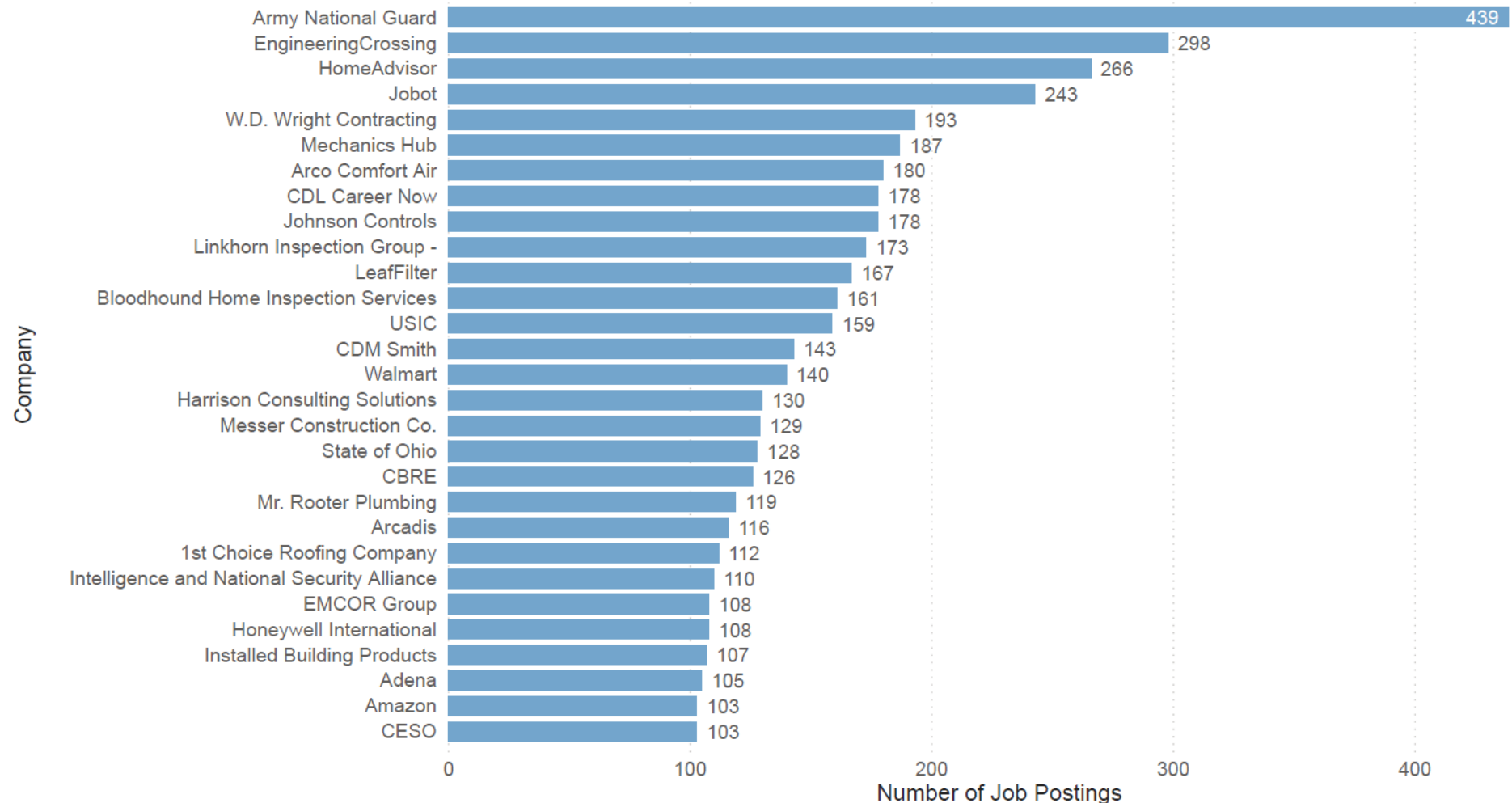


Figure 3 shows the top companies hiring in the construction technologies career field over a one-year period (October 2020-October 2021). There was a total of 55,723 construction job postings during this time period, with the highest number from the Army National Guard at 439.

Figure 4.

Demand and Supply of Construction Jobs in Ohio

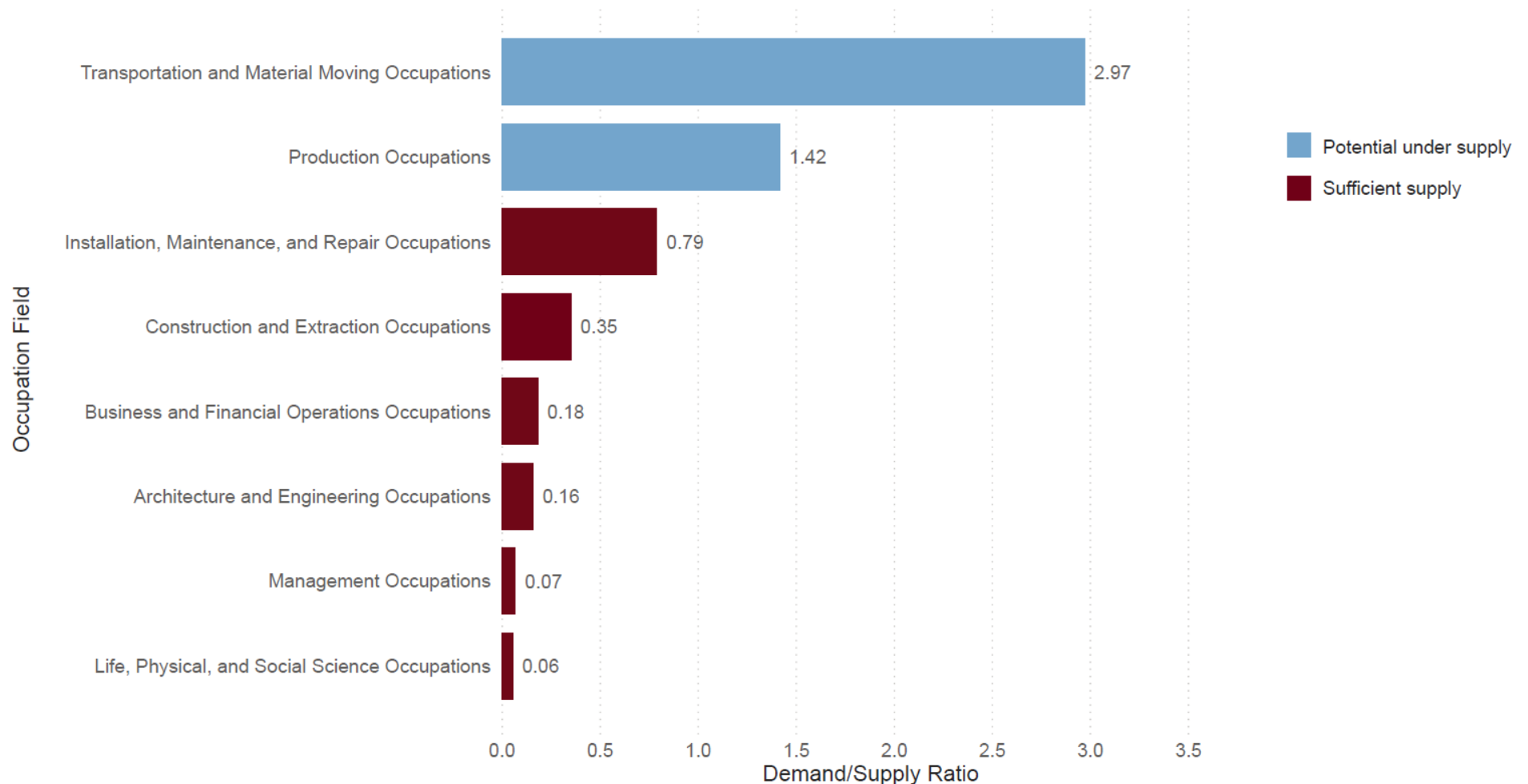


Figure 4 shows the demand and supply ratio for different areas in the career field. The ratio is calculated using the formula, job openings divided by the sum of graduates and those unemployed in the field [$\text{Ratio} = \frac{\text{Openings}}{\text{Graduates} + \text{Unemployed}}$]. A ratio of one or greater demonstrates a potential undersupply, shown in blue, and less than one shows a sufficient supply, shown in red. Transportation and Material Moving and Production Occupations are in potential undersupply; therefore, Ohio expects a labor shortage in these occupations in coming years.

Figure 5.

Demand for Hard Skills for Construction Jobs in Ohio

Growth 0.06 0.27

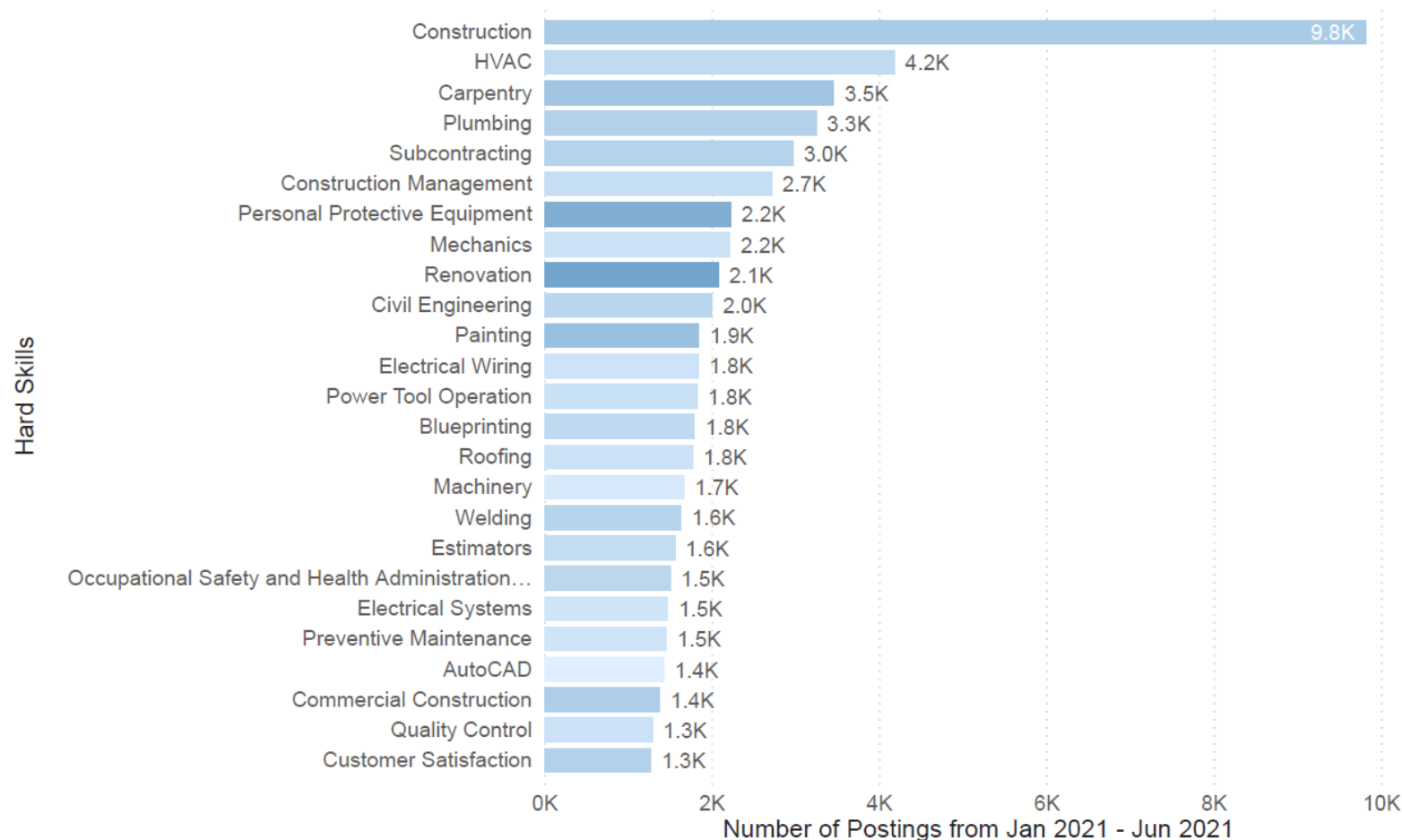


Figure 5 shows the top 25 in-demand hard skills employers are looking for in construction jobs, with the top skill unsurprisingly being construction. Additionally, the darker blue demonstrates skills that have seen a greater increase in demand from 2017 to 2021. The greatest increase in demand is in renovation and personal protective equipment at 27% and 24%, respectively.

Figure 6.

Demand for Soft Skills in Construction Jobs in Ohio

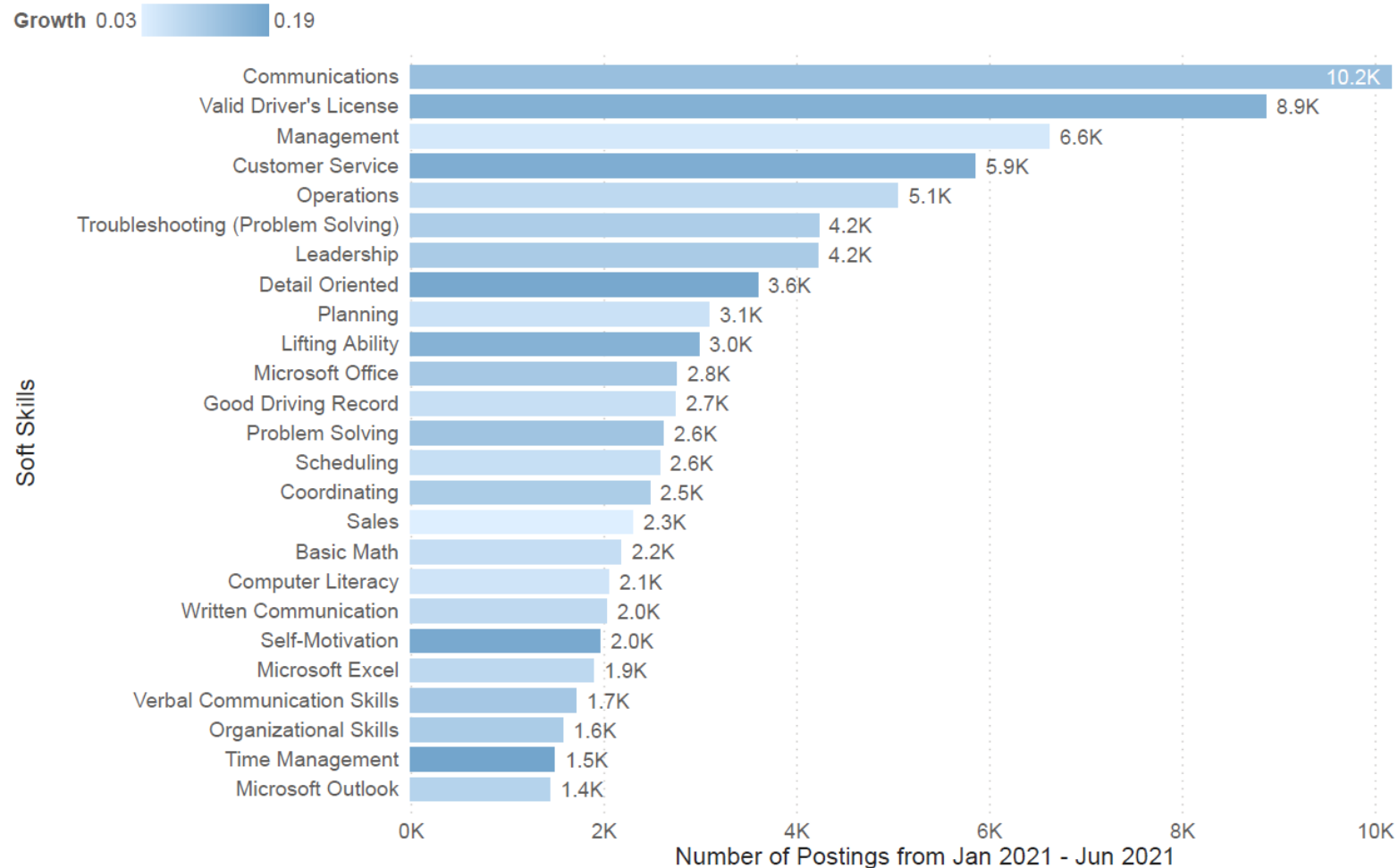


Figure 6 shows the top 25 in-demand soft skills employers are looking for in construction jobs. The top skill is communications, which appeared in over 10,000 job postings between January 2021 and June 2021. Additionally, the darker blue demonstrates skills that have seen a greater increase in demand from 2017 to 2021. The greatest increase in demand is in time management and detail oriented at 19% and 18%, respectively.

Appendix.

Standard Occupational Classification (SOC)	Occupation
11-9021	Construction Managers
13-1051	Cost Estimators
17-2051	Civil Engineers
17-211	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors
17-3011	Architectural and Civil Drafters
17-3012	Electrical and Electronics Drafters
17-3019	Drafters, All Other
19-5011	Occupational Health and Safety Specialists
19-5012	Occupational Health and Safety Technicians
47-1011	First-Line Sup/Mgrs of Con. Trades/Extract. Work
47-2011	Boilermakers
47-2021	Brickmasons and Blockmasons
47-2022	Stonemasons
47-2031	Carpenters
47-2041	Carpet Installers
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles
47-2044	Tile and Marble Setters
47-2051	Cement Masons and Concrete Finishers
47-2061	Construction Laborers
47-2071	Paving, Surfacing, and Tamping Equipment Operators
47-2073	Operating Engineers & Other Con. Equip. Op.
47-2081	Drywall and Ceiling Tile Installers
47-2082	Tapers
47-2111	Electricians
47-2121	Glaziers
47-2131	Insulation Workers, Floor, Ceiling, and Wall
47-2141	Painters, Construction and Maintenance
47-2142	Paperhangers
47-2151	Pipelayers

47-2152	Plumbers, Pipefitters, and Steamfitters
47-2161	Plasterers and Stucco Masons
47-2181	Roofers
47-2211	Sheet Metal Workers
47-2221	Structural Iron and Steel Workers
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters
47-3012	Helpers--Carpenters
47-3013	Helpers--Electricians
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters
47-3019	Helpers, Construction Trades, All Other
47-4011	Construction and Building Inspectors
47-4021	Elevator Installers and Repairers
47-4031	Fence Erectors
47-4041	Hazardous Materials Removal Worker
47-4061	Rail-Track Laying and Maintenance Equipment Operators
47-5022	Excavating and Loading Machine and Dragline Operators
47-5081	Helpers--Extraction Workers
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers
49-20222	Telecommunications Equipment Installers and Repairers, Except Line Installers
49-2098	Security and Fire Alarm Systems Installers
49-3042	Mobile Heavy Equipment Mechanics, Except Engines
49-9011	Mechanical Door Repairers
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door
49-9021	Heating, AC, & Refrigeration Mechanics/Installers
49-9044	Millwrights
49-9051	Electrical Power-Line Installers and Repairers
49-9052	Telecommunications Line Installers and Repairers
49-9096	Riggers
49-9098	Helpers--Installation, Maintenance, and Repair Workers
49-9099	Installation, Maintenance, and Repair Workers, All Other
51-2041	Structural Metal Fabricators and Fitters

51-4121	Welders, Cutters, Solderers, and Brazers
53-7021	Crane and Tower Operators
53-7041	Hoist and Winch Operators
53-7072	Pump Operators, Except Wellhead Pumpers