

Manufacturing Technologies Career Field In-Demand Jobs Data

The Manufacturing Technologies Career Field prepares students for careers in design, operations, manufacturing and STEM (Science, Technology, Engineering and Math). The list of careers used in the figures below can be found in the Appendix. The data presented below does not account for the economic impacts of Intel’s upcoming \$20 billion investment in Central Ohio.

Figure 1.

Projected Growth of Manufacturing Jobs in Ohio (2031)

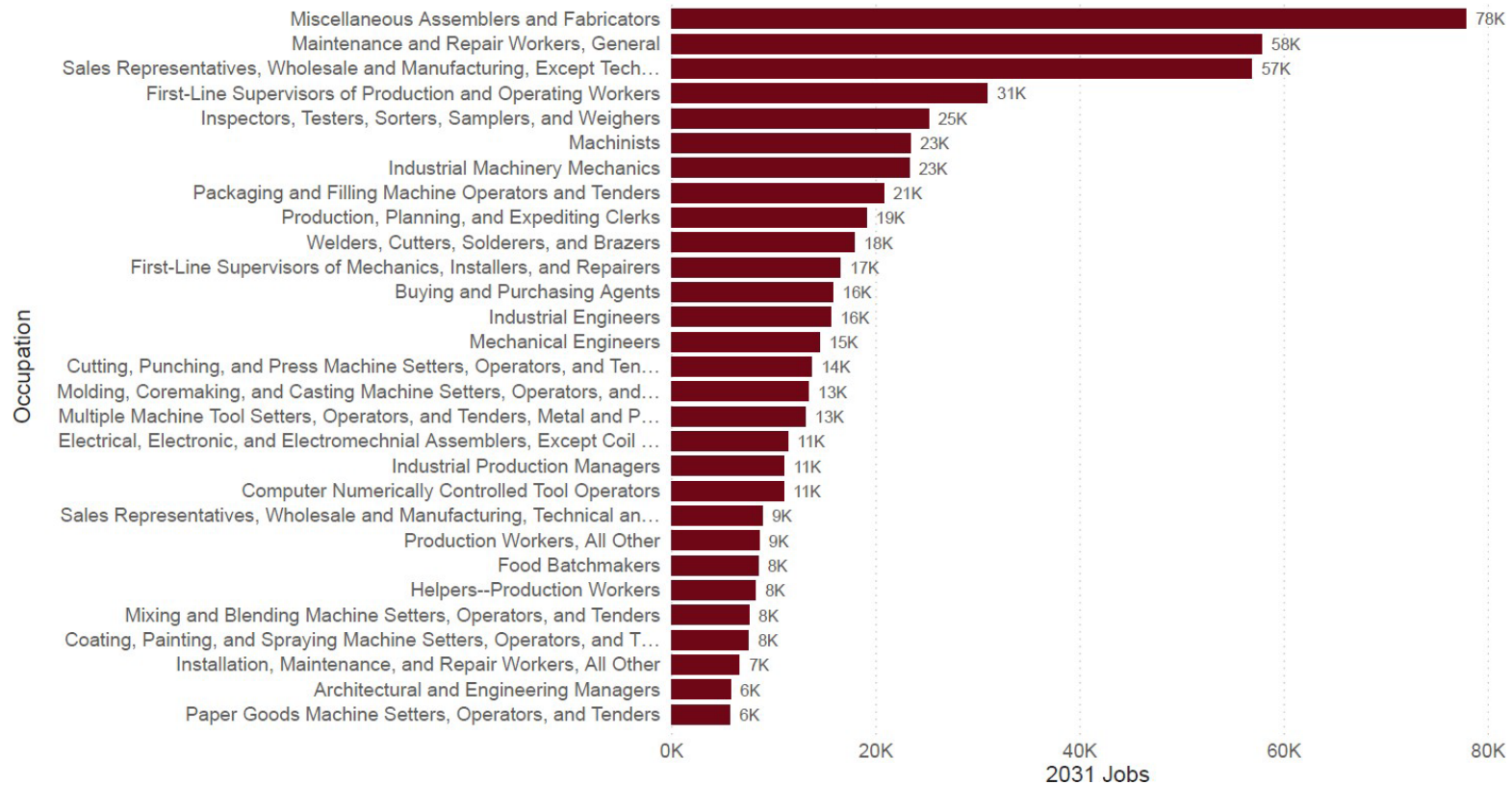


Figure 1 shows the highest in-demand occupations projected for 2031 in the Manufacturing career field, with Miscellaneous Assemblers and Fabricators topping the list with almost 78,000 jobs in Ohio in 2031.

Figure 2.

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

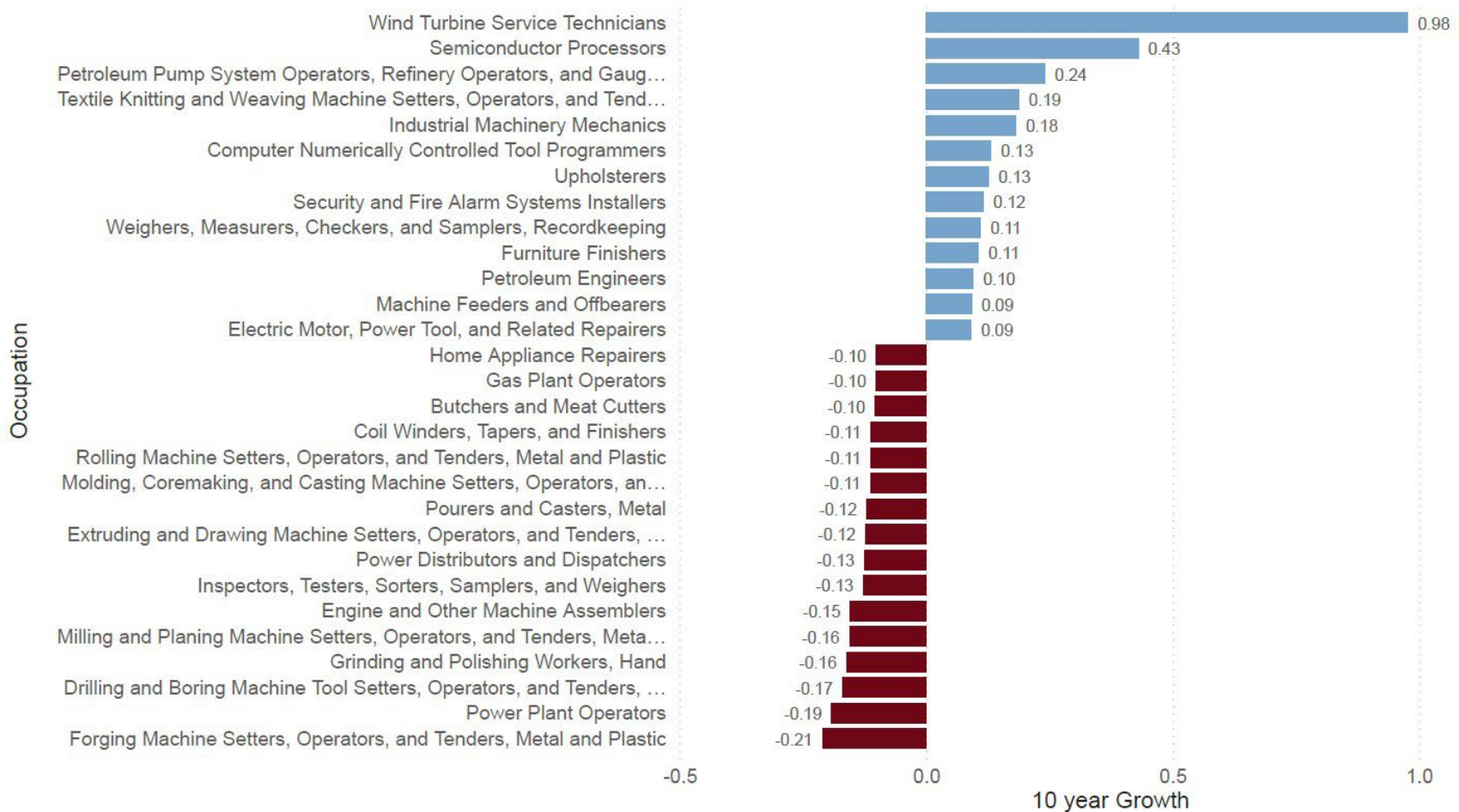


Figure 2 demonstrates the projected growth over the next ten years as a percentage. The blue represents positive growth, with the highest projected growth of 98% in Wind Turbine Service Technicians. The red represents negative growth or a decrease in the number of jobs, with the greatest expected decrease in Forging Machine Setters, Operators and Tenders, Metal and Plastic.

Figure 3.

Top Companies for Manufacturing Jobs in Ohio

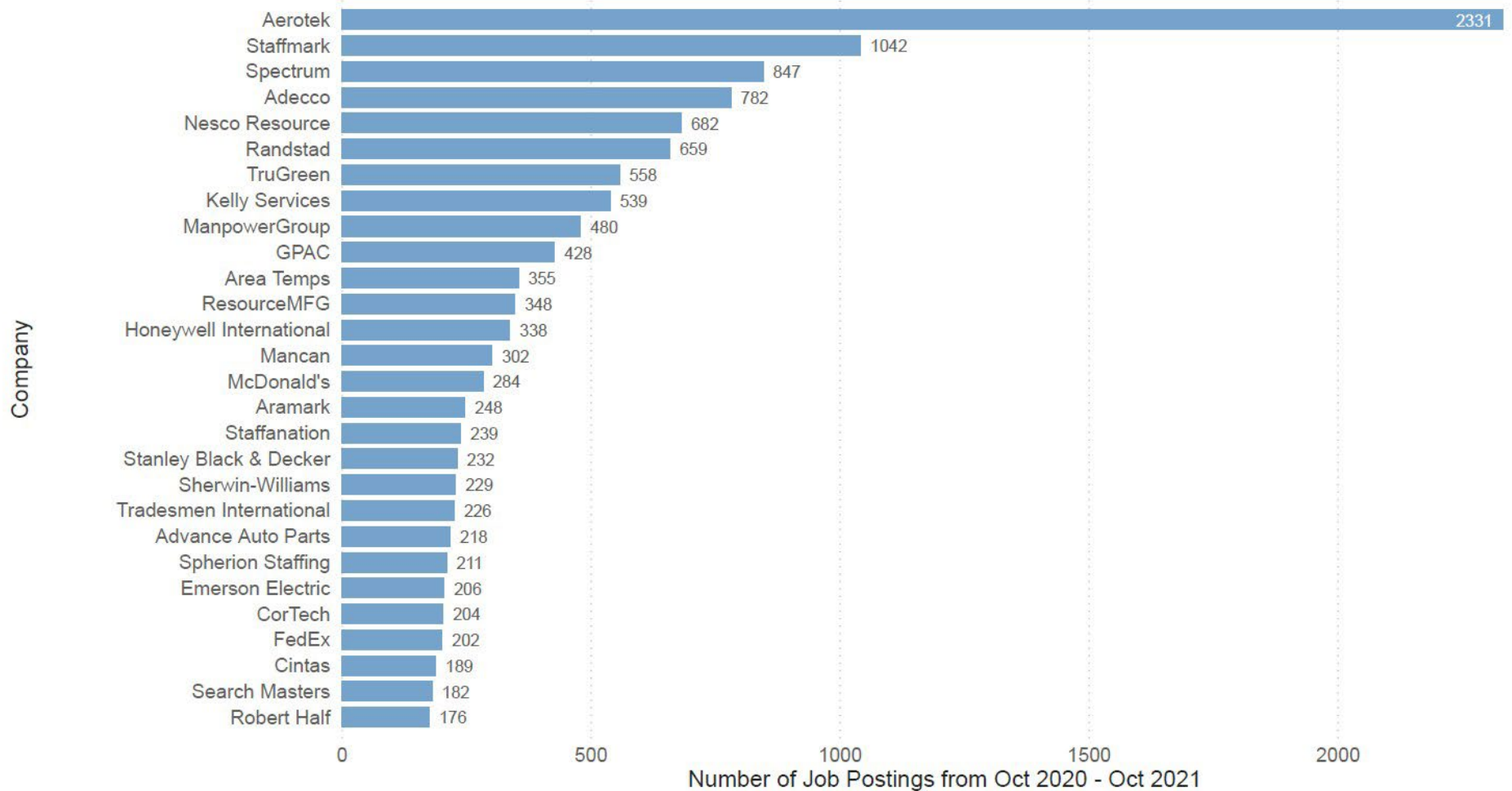


Figure 3 shows the top companies hiring in the Manufacturing career field over a one-year period (October 2020-October 2021). There was a total of 96,148 Manufacturing job postings during this time period, with the highest number from Aerotek at 2,331.

Figure 4.

Demand and Supply of Manufacturing Jobs in Ohio

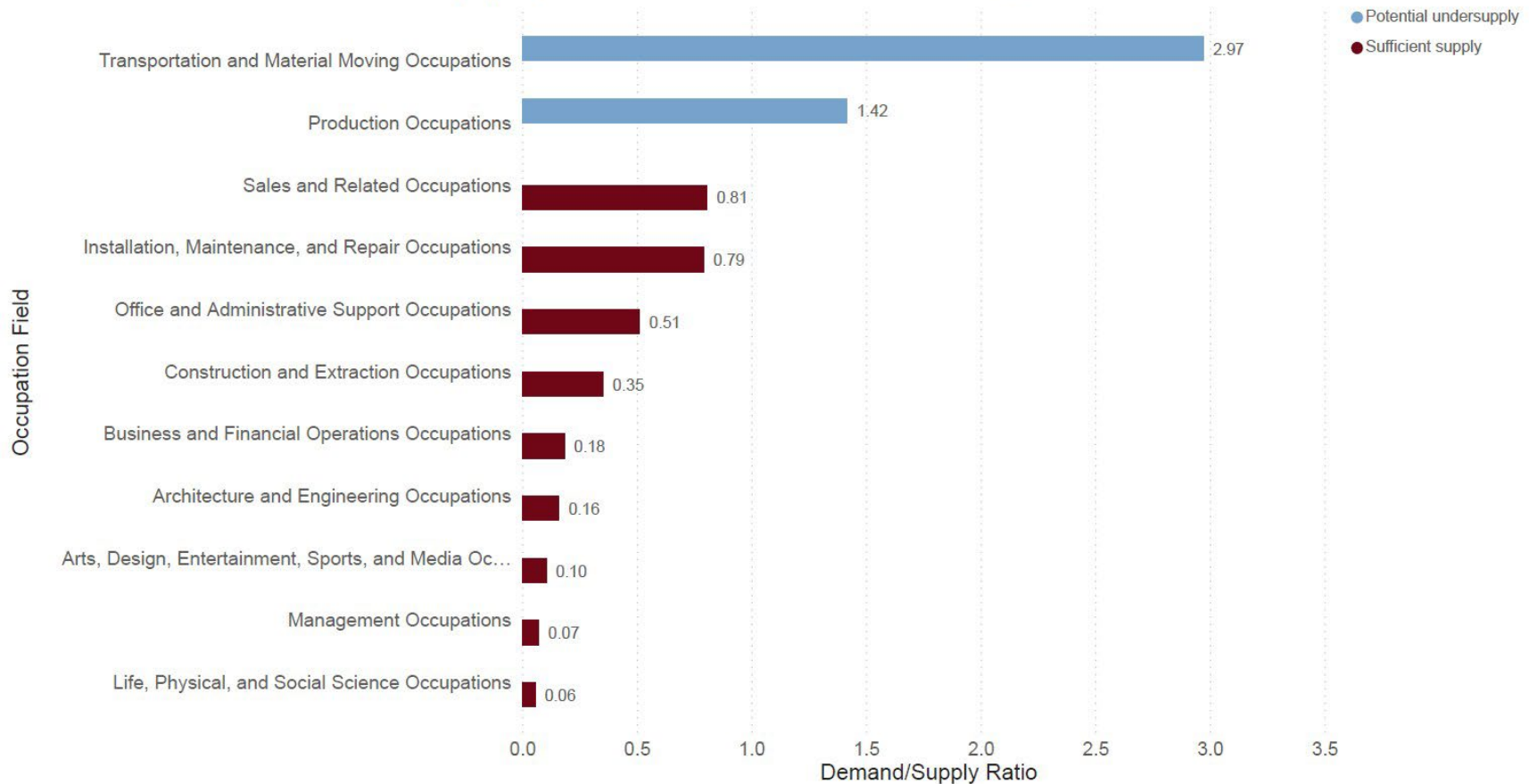


Figure 4 shows the demand and supply ratio for different areas in the career field. The ratio is calculated using the formula, job openings divided by the sum of graduates and those unemployed in the field [Ratio= $\text{Openings}/(\text{Graduates}+\text{Unemployed})$]. A ratio of one or greater demonstrates a potential undersupply and less than one shows a sufficient supply. Transportation and Material Moving and Production Occupations are in potential undersupply; therefore, there is expected demand in production occupations within the manufacturing career field in coming years.

Figure 5.

Demand for Hard Skills for Manufacturing Jobs in Ohio

Growth 0.03 2.94

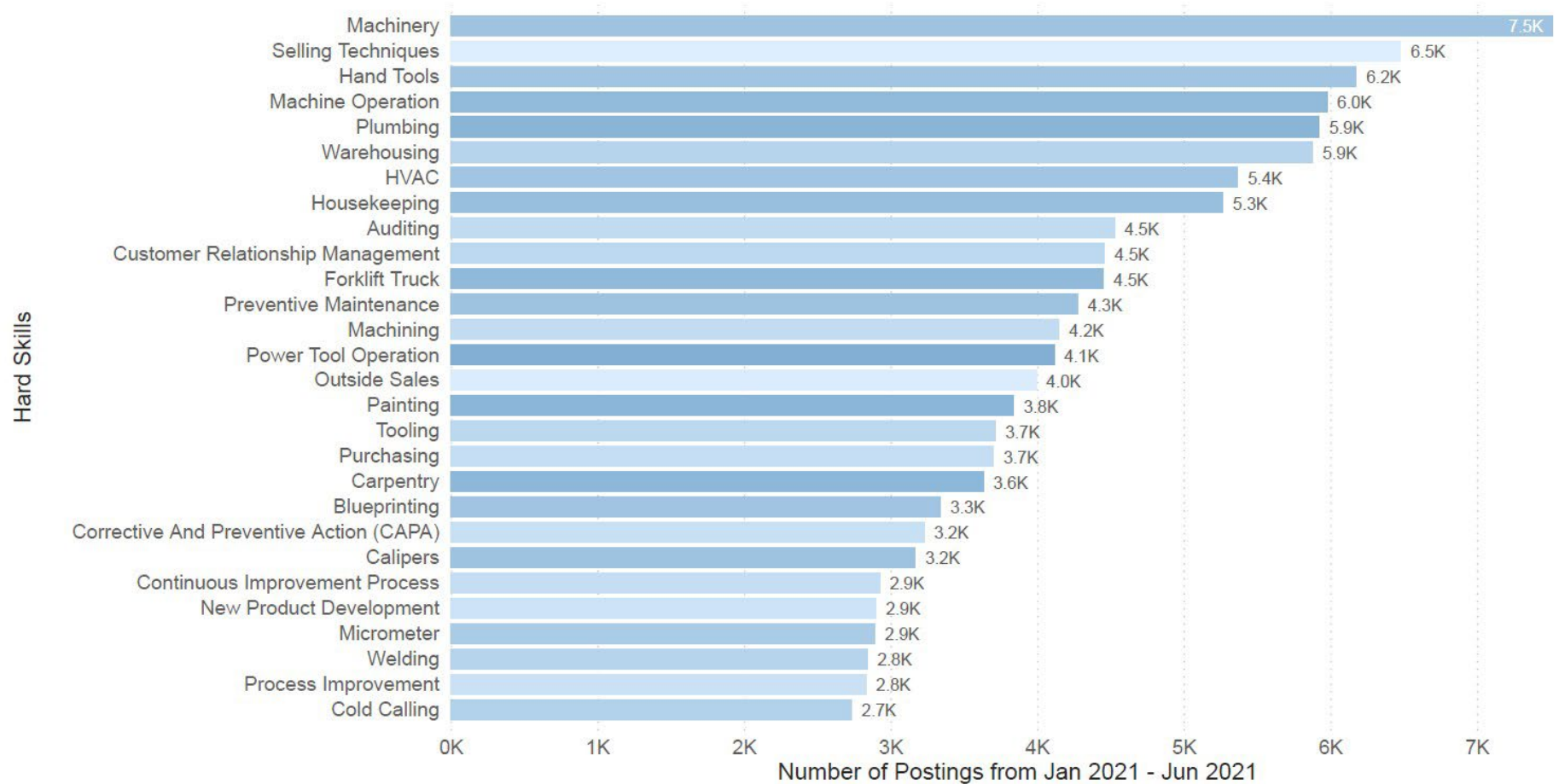


Figure 5 shows the top 28 in-demand hard skills employers are looking for in manufacturing jobs, with the top skill being Machinery. Additionally, the darker blue demonstrates skills that have seen a greater increase in demand from 2017 to 2021. The greatest increase in demand is in Tape Measure and Production Line at 294% and 264%, respectively.

Figure 6.

Demand for Soft Skills in Manufacturing Jobs in Ohio

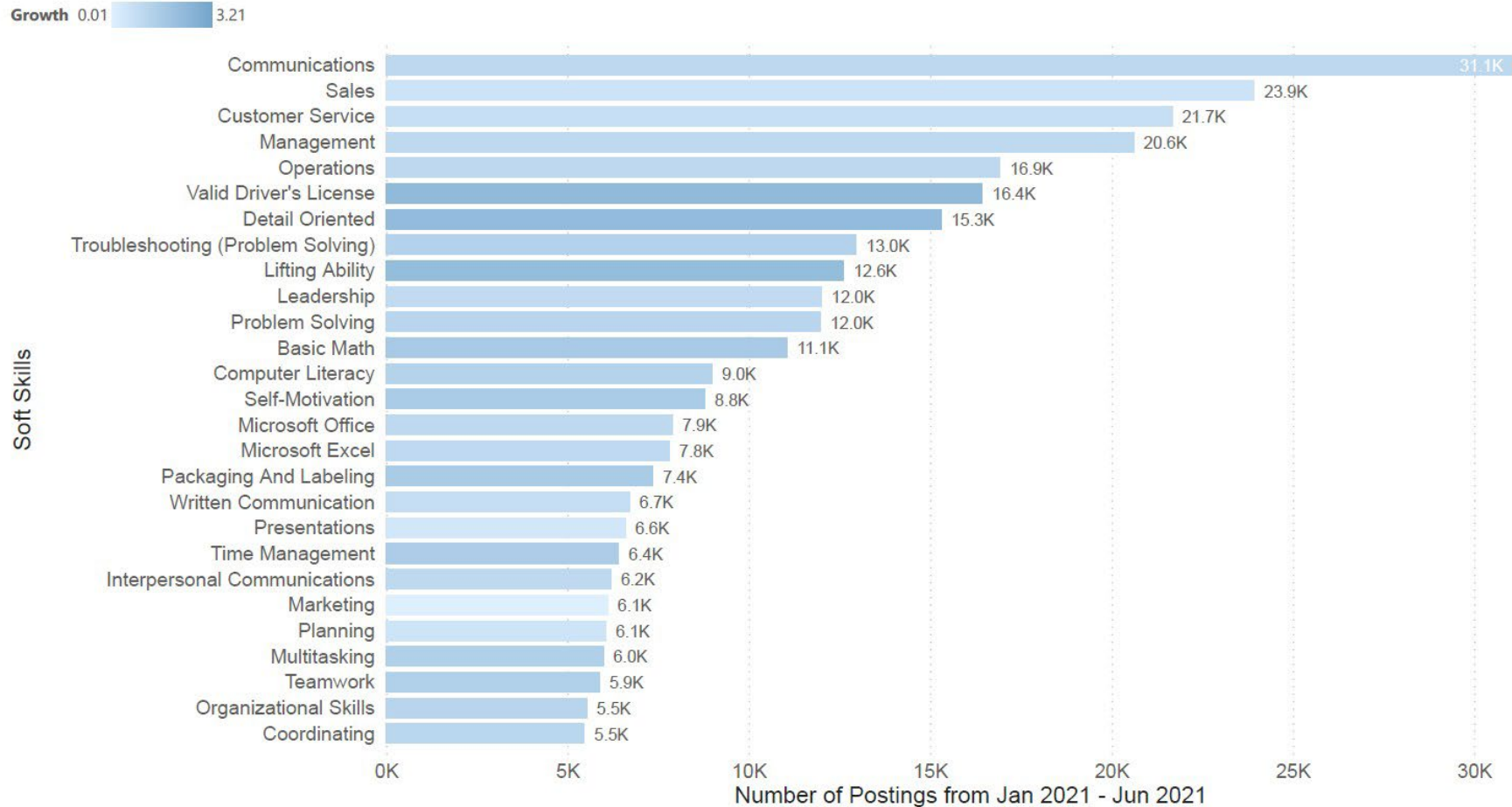


Figure 6 shows the top 27 in-demand soft skills employers are looking for in manufacturing jobs. The top skill is communications, which appeared in over 31,000 job postings between January 2021 and June 2021. Additionally, the darker blue demonstrates skills that have seen a greater increase in demand from 2017 to 2021. The greatest increase in demand is in Cleanliness and Positivity at 321% and 277%, respectively.

Appendix.

Standard Occupational Classification (SOC)	Occupation
11-3051	Industrial Production Managers
11-9041	Architectural and Engineering Managers
13-1028	Buying and Purchasing Agents
17-2011	Aerospace Engineers
17-2112	Industrial Engineers
17-2131	Materials Engineers
17-2141	Mechanical Engineers
17-2171	Petroleum Engineers
17-3013	Mechanical Drafters
17-3021	Aerospace Engineering and Operations Technicians
17-3024	Electro-Mechanical Technicians
17-3026	Industrial Engineering Technicians
17-3027	Mechanical Engineering Technicians
19-2032	Materials Scientists
19-4031	Chemical Technicians
27-1021	Commercial and Industrial Designers
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products
43-5061	Production, Planning, and Expediting Clerks
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping
47-2211	Sheet Metal Workers
47-5051	Rock Splitters, Quarry
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers
49-2092	Electric Motor, Power Tool, and Related Repairers
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay
49-2098	Security and Fire Alarm Systems Installers
49-9031	Home Appliance Repairers