

Architectural and engineering managers

Plan, direct, or coordinate activities in such fields as architecture and engineering or research and development in these fields.

Cognitive and mental requirements

The qualifications that workers need to use judgment, make decisions, interact with others, and adapt to changes in jobs.

In 2023, verbal interactions were required constantly (every few minutes) for 13.3 percent of architectural and engineering managers, and were required not constantly, but more than once per hour for 64.8 percent.

Table 1. Percentage of architectural and engineering managers with cognitive and mental requirements, 2023

Requirement	Yes	No	
Pace: Pause control	>99.5	<0.5	
Interaction with general public	71.8	28.2	
Working around crowds	<0.5	>99.5	
Telework	42.2	57.8	
Work review: Supervising others	98.0	2.0	
Work review: Presence of supervisor	45.0	55.0	
Source: U.S. Bureau of Labor Statistics, Occupational Requirements Survey			

Education, training, and experience requirements

The minimum level of formal education required, credentials necessary, on-thejob training, and prior work experience necessary for average performance in jobs.

In 2023, credentials were required for 42.9 percent of architectural and engineering managers. Prior work experience was required for greater than 80 percent and on-the-job training was required for 43.7 percent.

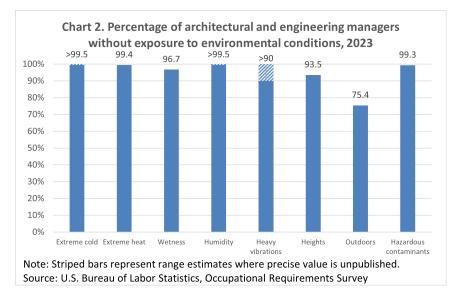
A bachelor's degree was required for 88.7 percent of

Chart 1. Percentage of architectural and engineering managers by specific preparation time (SVP) level, 2023 Short demonstration only (SVP1) Beyond short demonstration, up to and including 1 month < 0.5 (SVP 2) Over 1 month, up to and including 3 months (SVP 3) < 0.5 Over 3 months, up to and including 6 months (SVP 4) < 0.5 Over 6 months, up to and including 1 year (SVP 5) Over 1 year, up to and including 2 years (SVP 6) Over 4 years, up to and including 10 years (SVP 8) 29.2 Over 10 years (SVP 9) 62.1 20% 40% 60% Note: Striped bars represent range estimates where precise value is unpublished.

architectural and engineering managers.



Source: U.S. Bureau of Labor Statistics, Occupational Requirements Survey



Environmental conditions

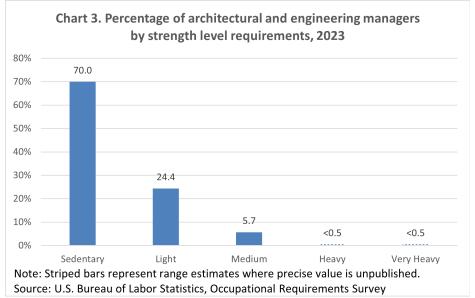
The various tangible or concrete hazards or difficulties that are in the vicinity of where jobs' critical tasks are performed.

In 2023, greater than 99.5 percent of architectural and engineering managers were not exposed to extreme cold, and 99.4 percent were not exposed to extreme heat. Wetness was not present for 96.7 percent, greater than 90 percent were not exposed to heavy vibrations, and 75.4 percent were not exposed to the outdoors.

Physical demands

Refer to the physical activities required to perform tasks in jobs. The presence and, in some cases, duration of these activities are published.

In 2023, keyboarding was required for greater than 99.5 percent of architectural and engineering managers and was not required for less than 0.5 percent. For less than 0.5 percent of workers, keyboarding was seldom performed, for 30.4 percent keyboarding occurred occasionally, 66.1 percent frequently, and for less than 10 percent keyboarding occurred constantly.



Performing work in low postures was required for 11.5 percent of architectural and engineering managers and was not required for 88.5 percent.

The choice to sit or stand when performing critical tasks was available to 89.4 percent of architectural and engineering managers. On average, workers spent 84.3 percent of the workday sitting and 15.7 percent of the workday standing.

Table 2. Percentage of architectural and engineering managers with physical demands, 2023

Requirement	Yes	No
Choice of sitting or standing	89.4	10.6
Driving	20.9	79.1
Climbing structure-related ramps or stairs	19.8	80.2
Source: U.S. Bureau of Labor Statistics, Occupational Requirements Survey	•	