

June 7, 2021

Low supply plagues high demand for cybersecurity experts

Ransomware cyberattacks on the United States' largest fuel pipeline in May and on JBS Foods, the world's largest meat supplier, in June, have highlighted an urgent need for increased cybersecurity monitoring to protect U.S. infrastructures, industries, businesses and consumers from hackers.

According to CyberSeek — a joint-initiative data tool of the U.S. Commerce Department, a job market analytics firm and a workforce nonprofit — supply shortages of cybersecurity workers exist nationwide. CyberSeek reports that from April 2020 through March 2021, about 1 million cybersecurity workers across the country were employed in public and private sectors and about 500,000 more cybersecurity-related jobs were available. Every state was looking to hire.

For example, Alabama had 5,604 cybersecurity jobs openings, while it employed 11,380 cybersecurity workers. That means that for every two jobs filled, there was an additional job available.



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Cybersecurity job openings Cybersecurity workers employed Supply/demand ratio Online job listings for public- and Estimated number of workers Existing cybersecurity private-sector cybersecurityemployed in cybersecurityworkers to cybersecurity related jobs, April 2020 through related jobs, April 2020 through job openings, public and March 2021. March 2021. private sector. 2.1 NATL. AVERAGE PUBLIC PRIVATE PUBLIC PRIVATE for cybersecurity jobs Alabama 5,604 11,380 832 1,725 Alaska 2.1 3.9 NATL. AVERAGE for all jobs Arizona 13,069 21,591 1.7 1,422 4711 I 3.3 Arkansas 1.8 California 55.487 102.431 Colorado 17,271 26,448 1.5 Connecticut 3,763 8,048 2.1 Delaware 1,413 3,138 2.2 District of Columbia 18,565 ▮ 24,513 1.3 Florida 21,893 47,480 2.2 17,083 33,301 1.9 Georgia Hawaii 2,707 5,241 1.9 Idaho 1,720 4,195 2.4 15,838 35,334 2.2 Illinois 4,119 10,336 2.5 Indiana 3213 7,388 2.3 Iowa Kansas 2,535 6,543 2.6 2,320 5,724 2.5 Kentucky 2,686 5,881 2.2 Louisiana 769 4.180 5.4 Maine Marvland 19,645 41.708 2.1 13,389 23,615 1.8 Massachusetts Michigan 7,129 15,976 2.2 Minnesota 7912 16,443 2.1

Sources: CyberSeek - a joint initiative between the National Initiative for Cybersecurity Education, led by the National Institute of Standards and Technology: iob market analytics and strategic intelligence provider Burning Glass Technologies; and global technology industry and workforce nonprofit CompTIA





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Cybersecurity job openings

Online job listings for public- and private-sector cybersecurity-related jobs, April 2020 through March 2021.

Cybersecurity workers employed

Estimated number of workers employed in cybersecurity-related jobs, April 2020 through March 2021.

Supply/demand ratio

Existing cybersecurity workers to cybersecurity job openings, public and private sector.

		PUBLIC PRIVATE		PUBLIC PRIVATE	2.1 NATL. AVERAGE for cybersecurity jobs
Mississippi	1,478		3,676		2.5 lor cybersecurity jobs
Missouri	7,593	18	8,680		2.5 3.9 NATL. AVERAGE for all jobs
Montana	724	1	2,637	II.	3.6
Nebraska	2,458	<u> </u>	5,915	-	2.4
Nevada	2,505		4,434	<u> </u>	1.8
New Hampshire	1,075	1 2	2,999	•	2.8
New Jersey	11,139	25	5,383		2.3
New Mexico	2,195		5,902		2.7
New York	19,432	54	4,053		2.8
North Carolina	17,660	33	3,072		1.9
North Dakota	840	1	1,762	I .	2.1
Ohio	10,448	24	4,461		2.3
Oklahoma	2,576	<u> </u>	6,878		2.7
Oregon	3,998		9,366	-	2.3
Pennsylvania	14,413	29	9,483		2.0
Rhode Island	1,283	1	2,895		2.3
South Carolina	5,145	12	2,094		2.4
South Dakota	679	1 2	2,052		3.0
Tennessee	5,064	11	1,145		2.2
Texas	42,469	8	1,544		1.9
Utah	4,125		9,207		2.2
Vermont	528	1	1,620	I -	3.1
Virginia	49,151	85	5,200		1.7
Washington	9,953	24	4,190		2.4
West Virginia	1,298	1	4,275	_	3.3
Wisconsin	4,664	10	0,166		2.2
Wyoming	366	1	1,231	I .	3.4

Sources: CyberSeek - a joint initiative between the National Initiative for Cybersecurity Education, led by the National Institute of Standards and Technology; job market analytics and strategic intelligence provider Burning Glass Technologies; and global technology industry and workforce nonprofit CompTIA



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