

Labor Market Demand Information

Compiled and Summarized by Stephen Pool, Institutional Research

- **State Labor Demand:** Artificial Intelligence programs map to three primary occupations: Software Developers, Computer Systems Analysts, and Computer & Information Systems Managers. These three occupations collectively had over twelve thousand annual job openings in Washington in 2024. However, these occupations are not AI-specific and a majority of these openings will be filled by completers from other programs like Computer Science or Information Technology.
- **State Job Postings:** Reviewing job posting records for a collection of Artificial Intelligence positions gives a more focused view of occupational demand for Artificial Intelligence programs. From August 2022 to July 2025, there were 797 unique job postings from 191 different employers within Washington. While this isn't a large number of postings, postings have grown sharply in recent years. From August 2022 to July 2023 there were only 81 job postings in Washington for Artificial Intelligence positions. However, this more than doubled to 229 postings in the next year, and in the most recent year this again more than doubled to 487 job postings. A majority of the Artificial Intelligence jobs posted in Washington from August 2024 to July 2025 were made by Amazon (103 postings), followed by Apple (72) and Microsoft (16), and had a median advertised salary of \$184.1 thousand.
- **State Competition:** The University of Washington has Washington's oldest Master's program in Artificial Intelligence, which first graduated 27 students in 2015. UW's program has graduated 31 students on average from this program since 2015, with a high of 51 students in 2021 and, based on most recent available data, graduated 29 students in 2024. Seattle University just started a Master's program in Artificial Intelligence in Fall 2025. Washington's only other Artificial Intelligence program is a Bachelor's degree offered through DigiPin Institute of Technology and graduated their first three students from the program in 2023.
- **National Perspective:** Looking at the national stage, job postings for Artificial Intelligence positions across the United States have been growing at a similar rate to what we see in Washington. From August 2024 to July 2025, the states with the highest unique job postings for Artificial Intelligence positions were: California (2,356 postings; 20.9% of all postings), Texas (1,053; 9.3%), New York (727; 6.5%), Virginia (703; 6.2%), and Washington (487; 4.3%). Across the United States there were 68 Artificial Intelligence programs that graduated students at any level in 2023, with a median of 8.5 graduates per program and an average of 18.7 graduates.
- **Program Takeaways:** Artificial Intelligence jobs are somewhat concentrated within Washington state, and the job market is thus far growing rapidly. There is evidence that there is sufficient occupational demand for a new Master's program in Artificial Intelligence at WSU. However, it may be wise to temper expectations regarding program enrollment, as less than half of all Artificial Intelligence programs in the United States had 10 or more graduates in 2023.