

# **2023 State of Computer Science Education**

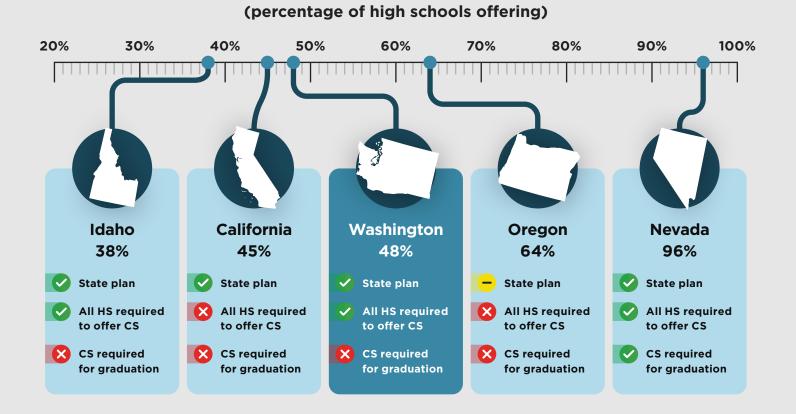
The rapid pace of technological advancement, as seen with the widespread integration of generative artificial intelligence (AI), underscores the need for foundational knowledge in computer science for all students. This report calls upon advocates to embrace the urgency of this matter and revamp school curricula to align with the demands of the 21st century, including requiring that all students learn computer science.

Currently, 57.5% of public high schools in the United States (U.S.) offer a foundational computer science class—an achievement marking the largest percentage growth in the last five years. Across the 35 states\* where data is available, 5.8% of high school students are enrolled in foundational computer science. Even with growing access this growth, large disparities still exist, and we must continue to focus on eliminating participation gaps. **10,857** In 2023, WA averaged 10,857 open computing jobs each month

**\$134,654** These jobs have an average salary of \$134,654

\*AL, AR, AZ, CT, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MA, MD, MS, NC, ND, NE, NJ, NM, NV, NY, OK, OR, PA, RI, TN, TX, UT, VA, VT, WV, WI

**Comparative Access to Computer Science Courses** 

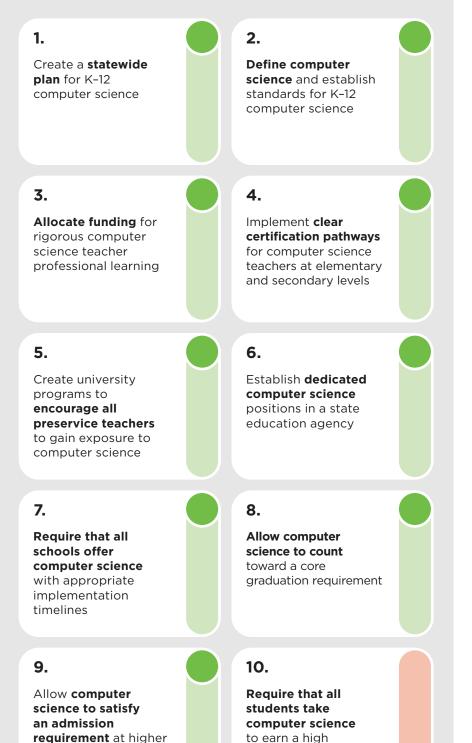




education institutions

# WASHINGTON

# Ten Policies to Make Computer Science Foundational



school diploma

# What Has Washington Done to Advance Computer Science Education?

Washington has funded computer science education since 2017, totaling over \$26M after the 2023 legislative session.

The Washington State Office of Superintendent of Public Instruction adopted a state plan for expanding computer science in 2022.

# How Can Washington Increase Opportunities for Students?

Washington should adopt a graduation requirement for all high school students in computer science.

Washington should expand its data collection to include K-5 schools.

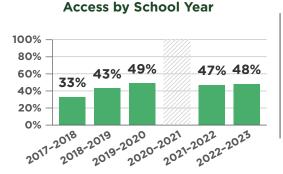


## Percentage of Public High Schools Offering Foundational Computer Science

41%

110

Urban



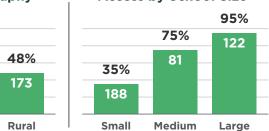
#### Access by Geography\*

54%

116

Suburban

Access by School Size\*



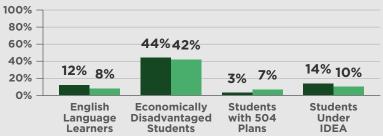
\*Data is from the most recent data school year 2022-2023

# Participation in Foundational High School Computer Science by Student Demographics

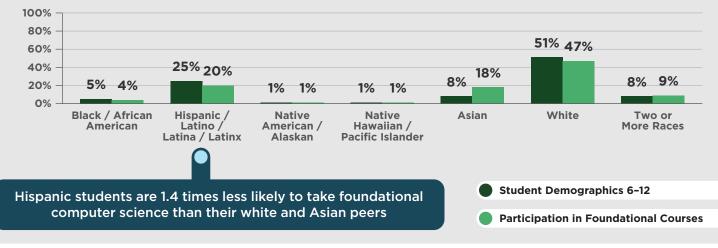


30% of students who took foundational computer science were female

#### Enrollment by Subgroup



#### **Enrollment by Race / Ethnicity**



## K-12 Access and Participation in Computer Science

49% of middle schools<sup>\*\*</sup> are teaching foundational computer science education. There were 32,388 students in middle school and high school that enrolled in CS.

\*\*77% of middle schools reported course offerings and among those schools 49% reported teaching foundational computer science



### Percentage of Public High Schools Offering Foundational Computer Science Nationally

