



MISSISSIPPI

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.

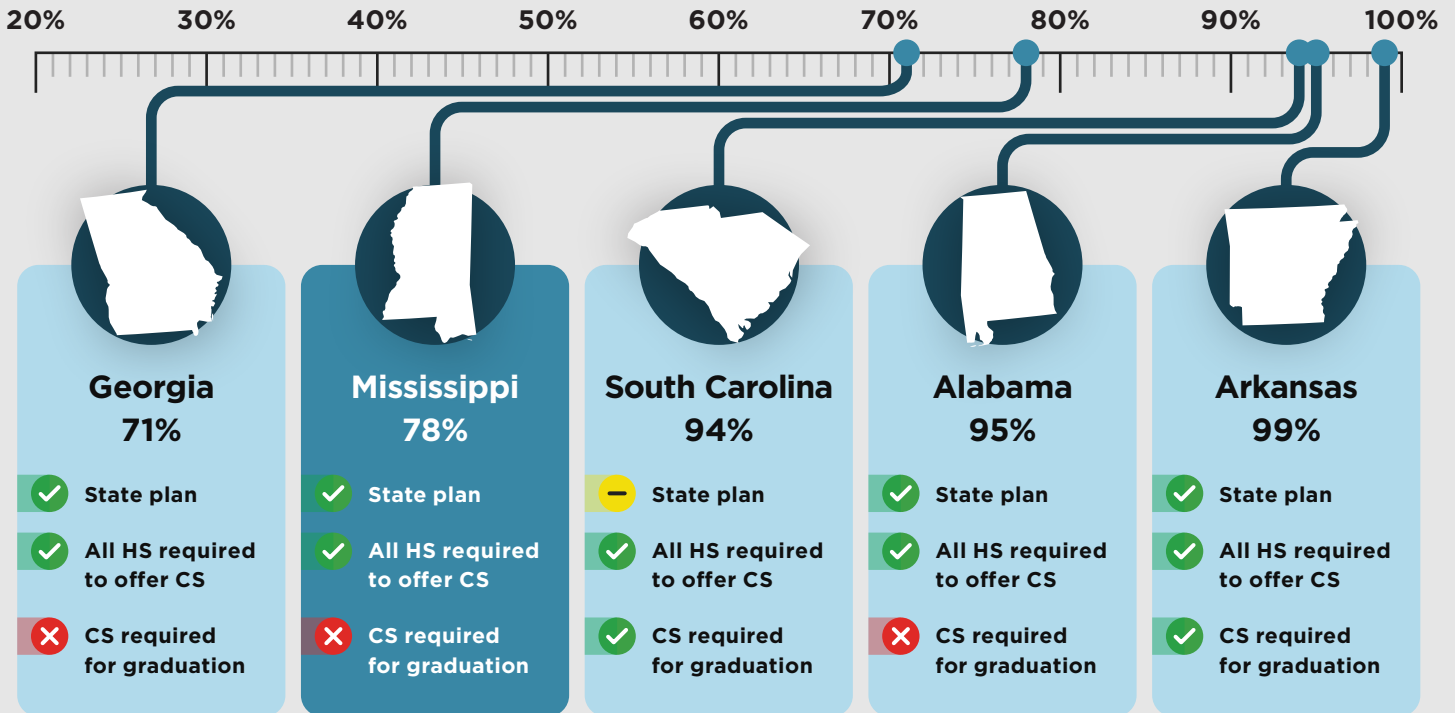
Currently, 57.5% of public high schools in the United States (U.S.) offer a foundational computer science class—an achievement marking the largest percentage growth in the last five years. Across the 35 states* where data is available, 5.8% of high school students are enrolled in foundational computer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

2,989
In 2023, MS averaged 2,989 open computing jobs each month

\$78,898
These jobs have an average salary of \$78,898

*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 (percentage of high schools offering)





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Ten Policies to Make Computer Science Foundational

1.

Create a **statewide plan** for K-12 computer science



2.

Define computer science and establish standards for K-12 computer science



3.

Allocate funding for rigorous computer science teacher professional learning



4.

Implement **clear certification pathways** for computer science teachers at elementary and secondary levels



5.

Create university programs to **encourage all preservice teachers** to gain exposure to computer science



6.

Establish **dedicated computer science** positions in a state education agency



7.

Require that all schools offer computer science with appropriate implementation timelines



8.

Allow computer science to count toward a core graduation requirement



9.

Allow **computer science to satisfy an admission requirement** at higher education institutions



10.

Require that all students take computer science to earn a high school diploma



What Has Mississippi Done to Advance Computer Science Education?

Mississippi has funded computer science education annually since 2020, totaling over \$3M after the 2023 legislative session.

Mississippi is requiring all elementary, middle, and high schools to offer computer science by the 2024-25 school year.

How Can Mississippi Increase Opportunities for Students?

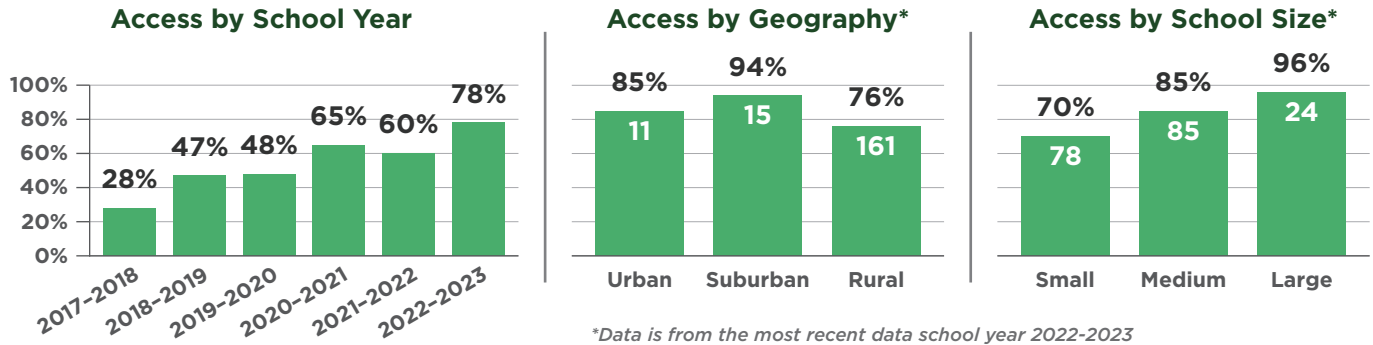
Mississippi should establish a dedicated position within the Department of Education focused on computer science education.

Mississippi should require all preservice teachers to receive instruction in computer science education to ensure there are enough teachers prepared to teach computer science in every school.



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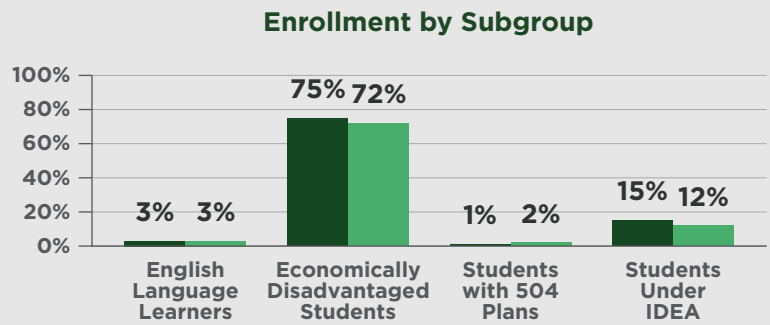
Percentage of Public High Schools Offering Foundational Computer Science



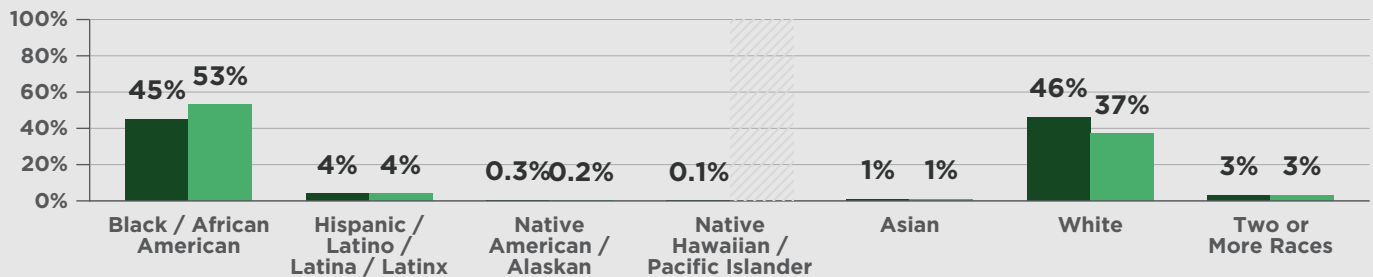
Participation in Foundational High School Computer Science by Student Demographics

9.5% of high school students took foundational computer science in 2022-2023

48% of students who took foundational computer science were female



Enrollment by Race / Ethnicity



Students of all racial and ethnic groups are similarly likely to take foundational computer science

- Student Demographics 9-12
- Participation in Foundational Courses

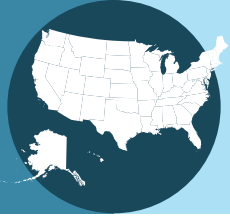
K-12 Access and Participation in Computer Science

52% of elementary schools** are teaching foundational computer science education, with an enrollment of 39,801 students.

44% of middle schools*** are teaching foundational computer science education, with an enrollment of 9,611 students.

**68% of elementary schools reported course offerings and among those schools 52% reported teaching foundational computer science

***93% of middle schools reported course offerings and among those schools 44% reported teaching foundational computer science



UNITED STATES

Percentage of Public High Schools Offering Foundational Computer Science Nationally

