



Missouri

2022 State of Computer Science Education

The tremendous growth of computer science (CS) education has significantly slowed during the COVID-19 pandemic, with few schools able to add new classes to the curriculum. Now, in 2022, it is time for policymakers to reassess the knowledge, skills, and curricula that will engage students, support learning objectives, and prepare students for their post-school lives.

Just over half (53%) of high schools in the U.S. offer a single computer science course. Although this represents significant growth (from 35% in 2018), the number of schools offering CS—a foundational subject that is critical to the nation’s economy and security—has grown by just two percent in the past year. State and federal policy can accelerate growth in computer science education by reexamining the foundational needs for all our K-12 students. Policymakers and school decision-makers must answer this call to ensure all students have equitable access to computer science education.

Missouri by the Numbers

12,631

In 2022, MO averaged 12,631 open computing jobs each month

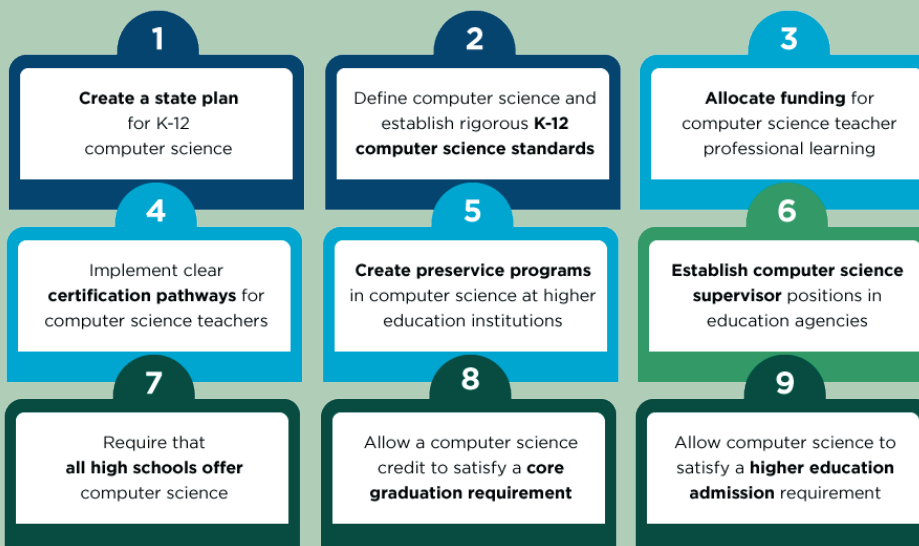
\$81,564

These jobs have an average salary of \$81,564

1,642

Yet there were only 1,642 graduates in computer science in 2019

Nine Policies to Make Computer Science Fundamental



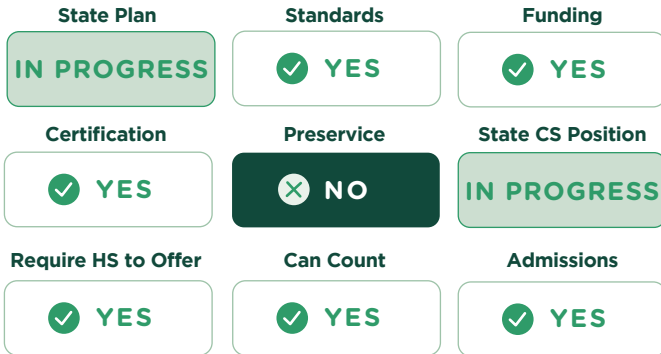
Policy Principles

- Clarity
- Capacity
- Leadership
- Sustainability
- Equity and Diversity*

*Equity and Diversity should be incorporated in each of the nine policies.

Missouri

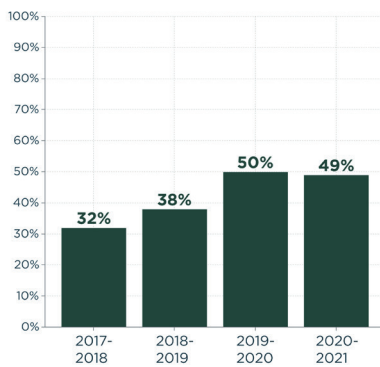
Policies to Make CS Fundamental



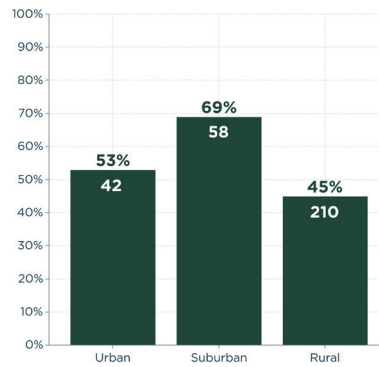
69.0% of MO high school students attend a school that offers foundational computer science, but only **3.3% of students** are enrolled in a computer science course. **24.7% of students** enrolled in a computer science course are **female**.

Percentage of Public High Schools Offering Foundational Computer Science

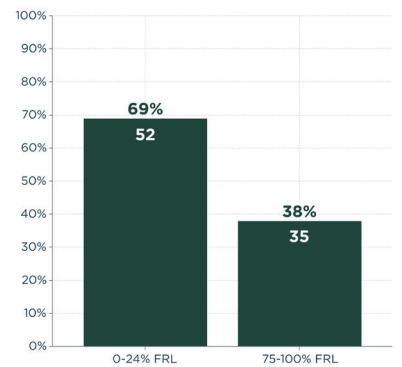
Access by School Year



Access by Geography



Access by % FRL in the School

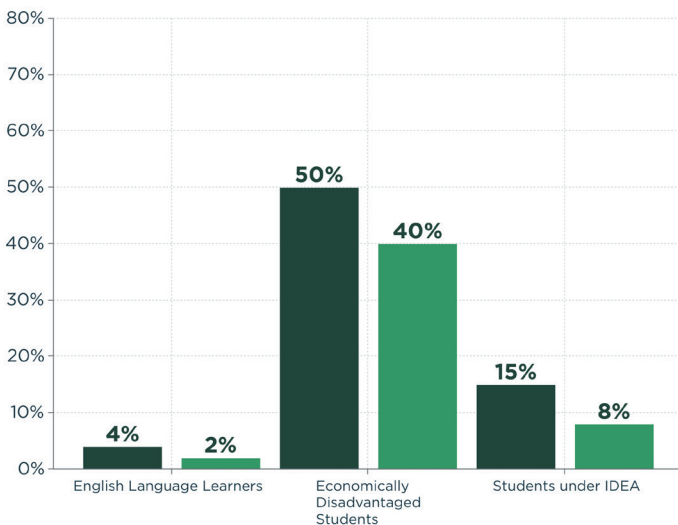


Data provided primarily by the Department of Education, based on 634 schools with high school grades. Participation data was masked at low counts. Participation data is from the 2019-2020 school year, and access report data is from the 2020-21 school year.

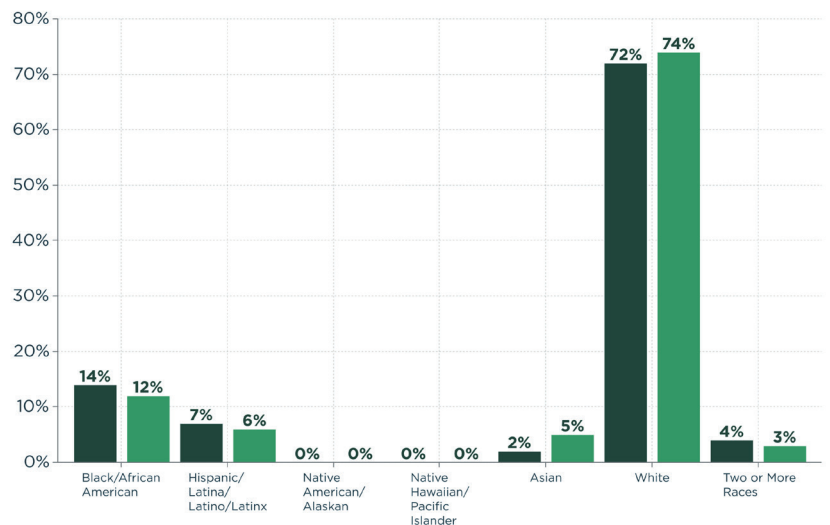
Participation in Foundational High School Computer Science Courses by Demographic

■ Student Demographics 9-12 ■ Participation in Foundational Courses

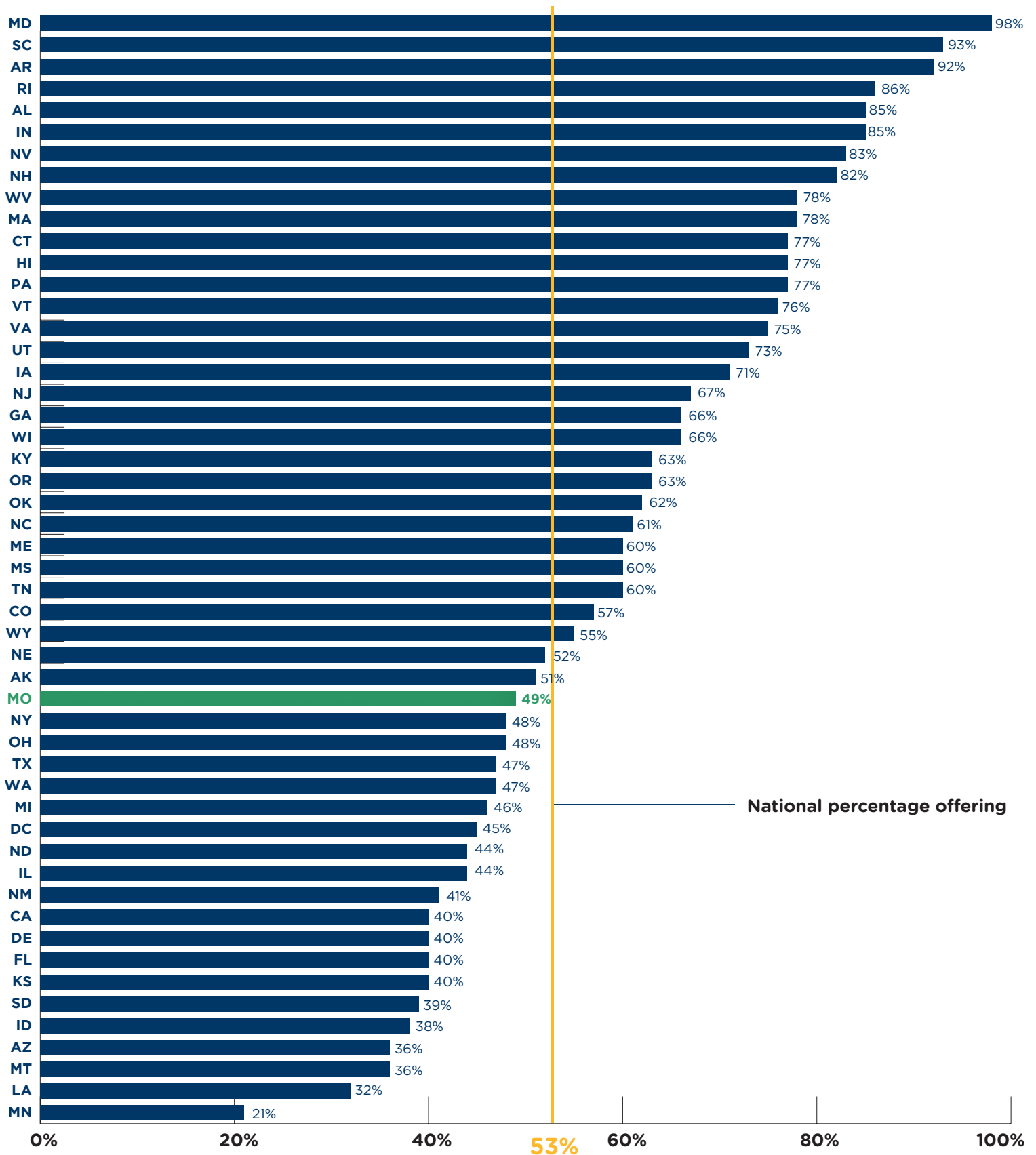
CS Enrollment by Subgroup



CS Enrollment by Race/Ethnicity



Percentage of High Schools Offering Computer Science, by State*



*for the most recent school year reported by each state