



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.

Minnesota by the Numbers

12,107

In 2022, MN averaged 12,107 open computing jobs each month

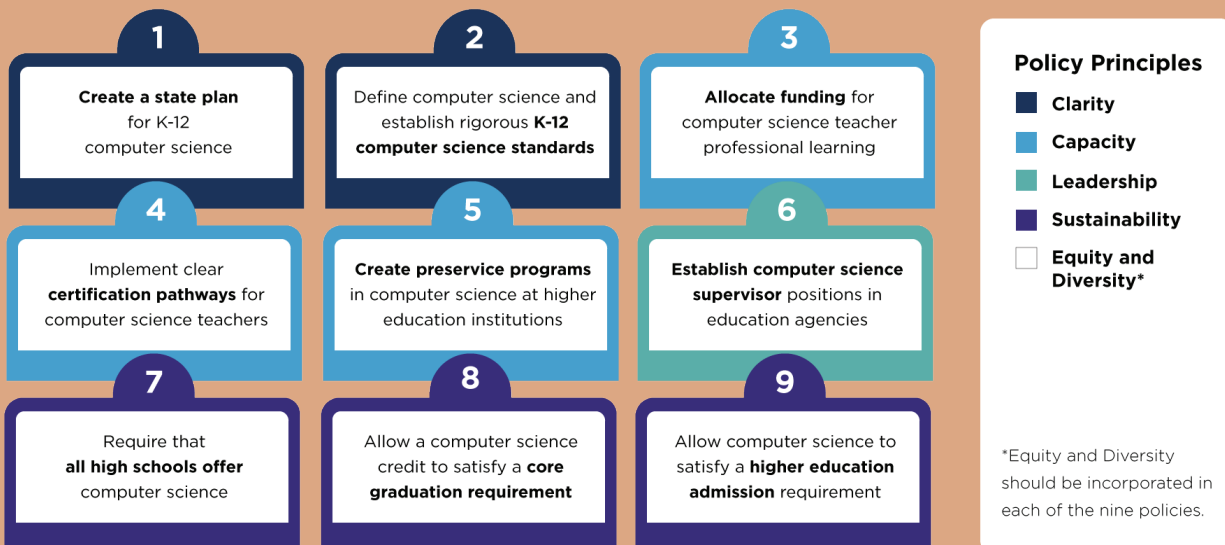
\$92,494

These jobs have an average salary of \$92,494

1,533

Yet there were only 1,533 graduates in computer science in 2019

Nine Policies to Make Computer Science Fundamental



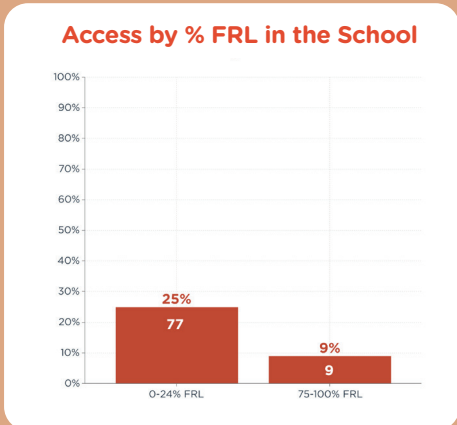
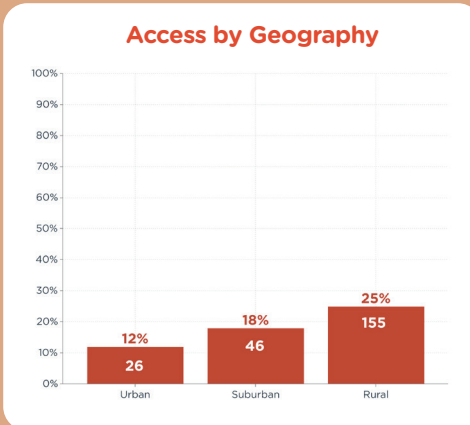
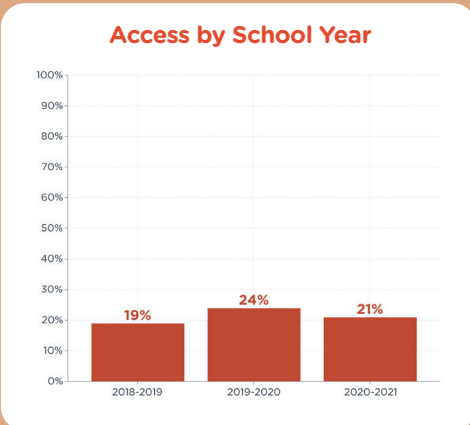
Minnesota

Policies to Make CS Fundamental

State Plan ✗ NO	Standards ✗ NO	Funding ✗ NO
Certification ✗ NO	Preservice ✗ NO	State CS Position ✓ YES
Require HS to Offer ✗ NO	Can Count ✓ YES	Admissions ✗ NO

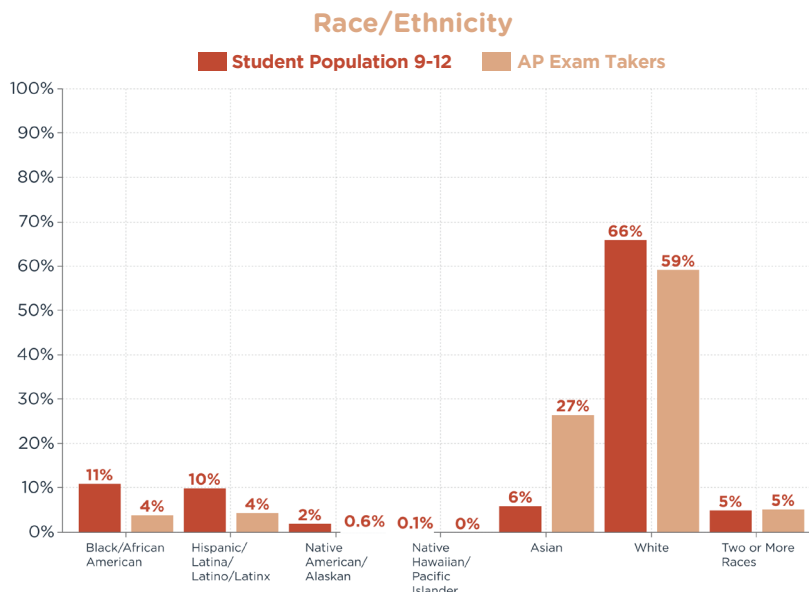
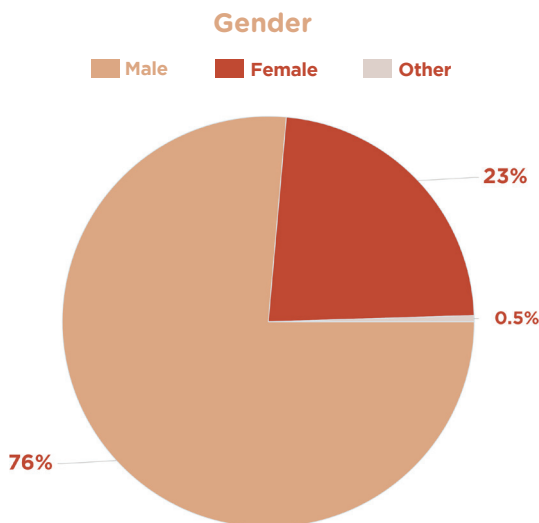
43.5% of MN high school students attend a school that offers foundational computer science. Of the 1,432 AP CS exams taken in Minnesota in school year 2020-21, **23% were female**. Course enrollment data for all foundational computer science courses is not available from Minnesota. Nationally, we know that participation in all foundational computer science courses is broader than AP participation.

Percentage of Public High Schools Offering Foundational Computer Science

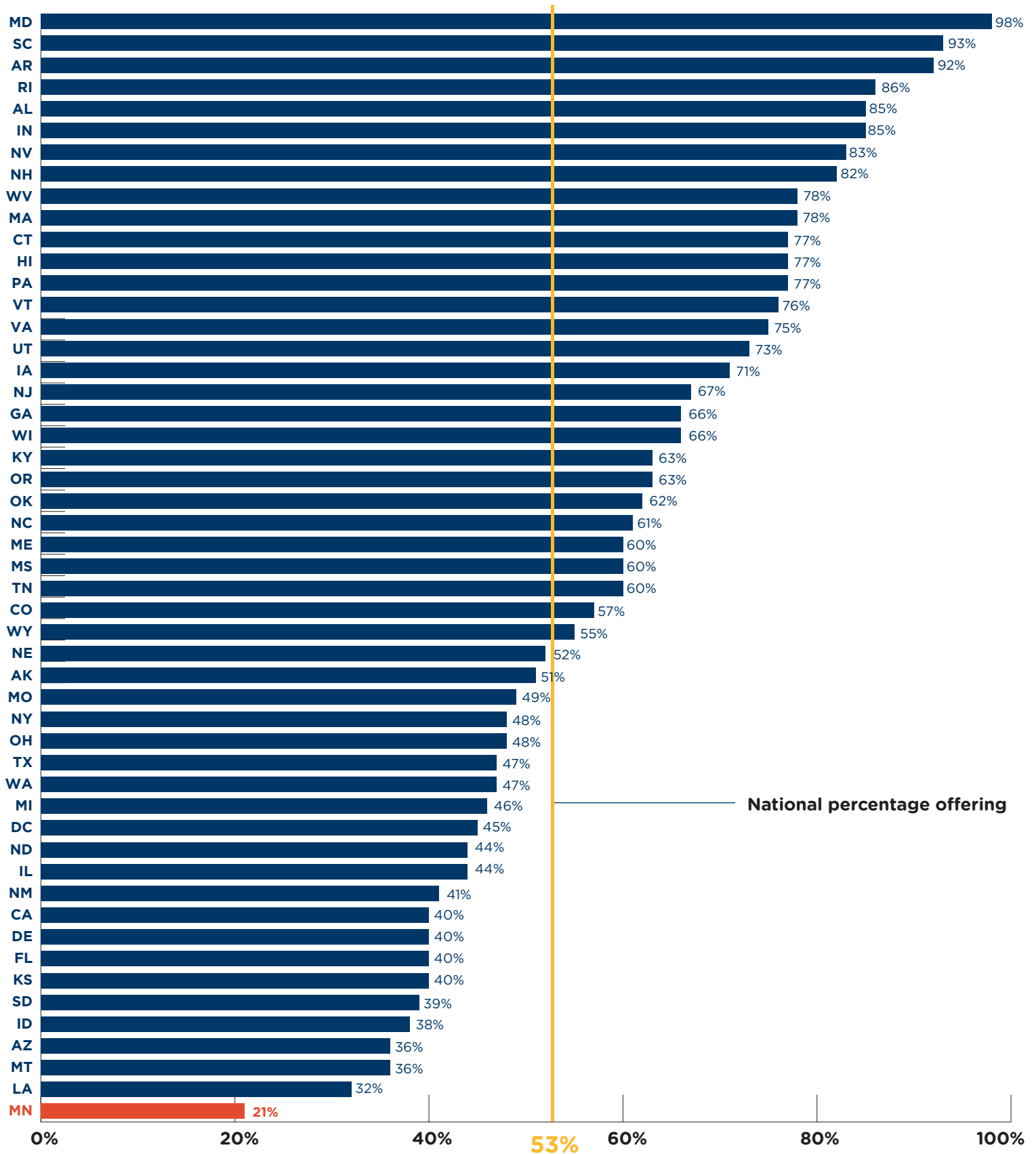


Data provided primarily by the Department of Education and school catalogs, based on 1,100 schools with high school grades. The state reports low-income students rather than students who qualify for free and reduced-price meals. Participation data was masked at low counts.

Participation in AP Computer Science Exams by Demographic



Percentage of High Schools Offering Computer Science, by State*



*for the most recent school year reported by each state