

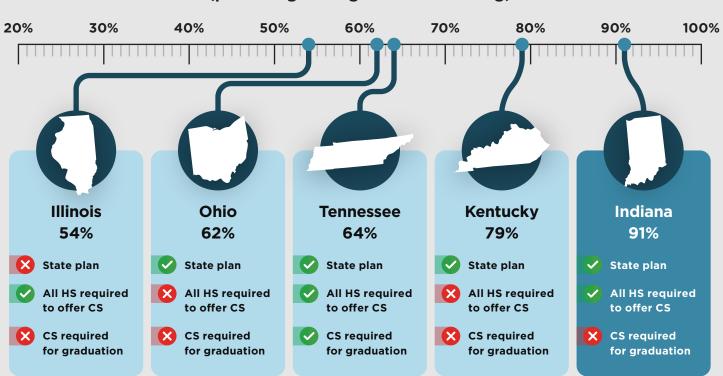
# **2023 State of Computer Science Education**

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. **5,623** In 2023, IN averaged 5,623 open computing jobs each month **\$85,637** 

These jobs have an average salary of \$85,637

\*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)



# Ten Policies to Make Computer Science Foundational



to earn a high

school diploma

requirement at higher

education institutions

## What Has Indiana Done to Advance Computer Science Education?

Indiana requires every elementary, middle, and high school to offer computer science.

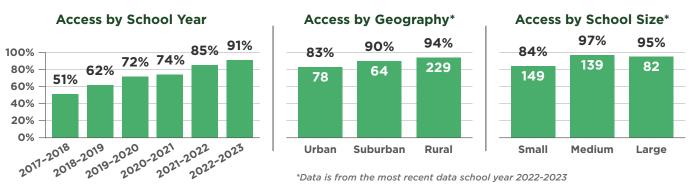
Indiana has funded computer science education annually since 2019, totaling over \$18M after the 2023 legislative session.

# How Can Indiana Increase Opportunities for Students?

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



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

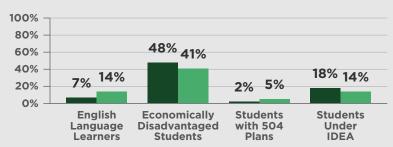


#### Participation in Foundational High School Computer Science by Student Demographics

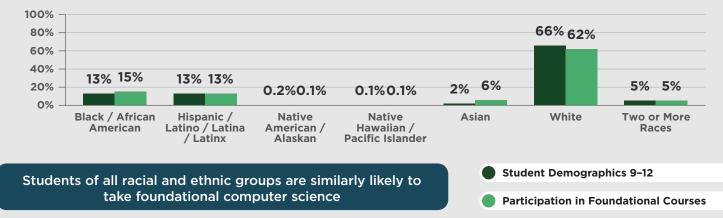
6.0% of high school students took foundational computer science in 2022-2023

24% of students who took foundational computer science were female

#### Enrollment by Subgroup



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



#### K-12 Access and Participation in Computer Science

30% of middle schools\*\* are teaching foundational computer science education, with an enrollment of 126,630 students. 52% of middle schools<sup>\*\*\*</sup> are teaching foundational computer science education, with an enrollment of 44,957 students.

\*\*93% of elementary schools reported course offerings and among those schools 30% reported teaching foundational computer science \*\*\*91% of middle schools reported course offerings and among those schools 52% reported teaching foundational computer science



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

