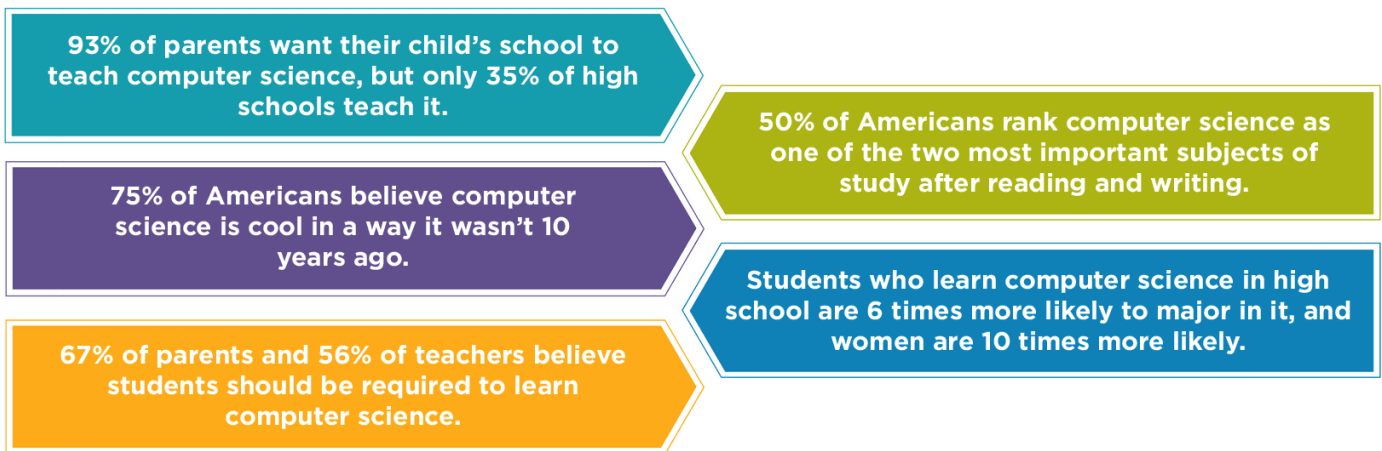
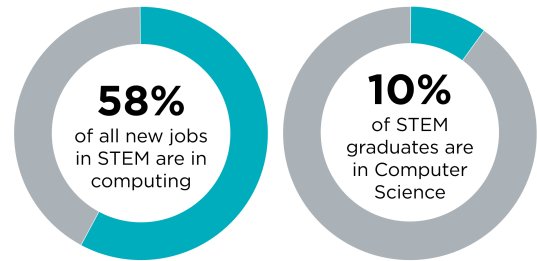


Support K-12 Computer Science Education in Florida

Computer science drives job growth and innovation throughout our economy and society. Computing occupations are the **number 1 source of all new wages in the U.S.** and make up over half of all projected new jobs in STEM fields, making Computer Science one of the most in-demand college degrees. And computing is used all around us and in virtually every field. It's foundational knowledge that all students need. But computer science is marginalized throughout education. Only 35% of U.S. high schools teach any computer science courses and only 10% of STEM graduates study it. We need to improve access for all students, including groups who have traditionally been underrepresented.

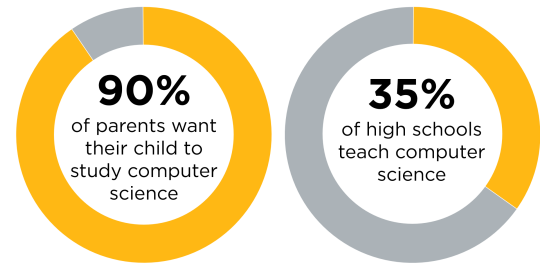


Computer science in Florida

- Florida currently has **17,772 open computing jobs** (2.6 times the average demand rate in Florida).
- The average salary for a computing occupation in FL is **\$80,276**, which is significantly higher than the average salary in the state (\$44,790). The existing open jobs alone represent a **\$1,426,667,916 opportunity** in terms of annual salaries.
- Florida had only **2,986 computer science graduates** in 2017; only **18%** were female.
- In Florida, only **19% of all public high schools teach computer science**.
- Only **10,617 exams were taken in AP Computer Science by high school students in Florida** in 2018 (2,645 took AP CS A and 7,972 took AP CSP).
- Only 28% were female (22% for AP CS A and 30% for AP CSP); only 3,385 exams were taken by Hispanic or Latino students (734 took AP CS A and 2,651 took AP CSP); only 1,006 exams were taken by Black students (140 took AP CS A and 866 took AP CSP); only 21 exams were taken by American Indian or Alaska Native students (5 took AP CS A and 16 took AP CSP); only 12 exams were taken by Native Hawaiian or Pacific Islander students (2 took AP CS A and 10 took AP CSP).
- Only **315 schools** in FL (29% of FL schools with AP programs) offered an AP Computer Science course in 2017-2018 (15% offered AP CS A and 24% offered AP CSP), which is 74 more than the previous year.
- Universities in Florida did not graduate a single new teacher prepared to teach computer science in 2016.
- According to a representative survey from Google/Gallup, school administrators in FL support expanding

computer science education opportunities: 67% of principals surveyed think CS is just as or more important than required core classes.

What can you do to support K-12 CS education in Florida?



1. Nominate a teacher for a professional learning scholarship: www.code.org/nominate
2. Send a letter:
 - o To your school/district asking them to expand computer science offerings at every grade level: www.code.org/promote/letter
 - o To your elected officials asking them to support computer science education policy in Florida: www.votervoice.net/Code/campaigns/58463/respond
3. Find out if your school teaches computer science or submit information about your school's offerings at www.code.org/yourschool.
4. Visit www.code.org/educate/3rdparty to find out about courses and curriculum from a variety of providers, including Code.org.
5. Visit www.code.org/promote/FL to learn more about supporting computer science in your state.

Code.org's impact in Florida

- In Florida, Code.org's curriculum is used in
 - o 20% of elementary schools
 - o 13% of middle schools
 - o 11% of high schools
- There are 36,136 teacher accounts and 1,267,441 student accounts on Code.org in Florida.
- Of students in Florida using Code.org curriculum last school year,
 - o 58% attend high needs schools
 - o 13% are in rural schools
 - o 43% are female students
 - o 59% are underrepresented minority students (Black/African American, Hispanic/Latino, American Indian, or Hawaiian)
- Code.org, its regional partner(s) Broward County Public Schools, Florida International University, Florida State College Jacksonville, Orlando Science Center, and Tampa Bay STEM Network, and 45 facilitators have provided professional learning in Florida for
 - o 6,430 teachers in CS Fundamentals (K-5)
 - o 337 teachers in Exploring Computer Science or Computer Science Discoveries
 - o 232 teachers in Computer Science Principles

“Computer Science is a liberal art: it’s something that everybody should be exposed to and everyone should have a mastery of to some extent.”

— Steve Jobs

What can your state do to improve computer science education?

States and local school districts need to adopt a broad policy framework to provide all students with access to computer science. The following nine recommendations are a menu of best practices that states can choose from to support and expand computer science. Not all states will be in a position to adopt all of the policies. Read more about these 9 policy ideas at https://code.org/files/Making_CS_Fundamental.pdf and see our rubric for describing state policies at <http://bit.ly/9policiesrubric>.

- Florida **has not** yet created a state plan for K-12 computer science. A plan that articulates the goals for computer science, strategies for accomplishing the goals, and timelines for carrying out the strategies is important for making computer science a fundamental part of a state's education system.
- Florida has established K-12 computer science standards.
- Florida **does not yet** provide dedicated funding for rigorous computer science professional development and course support. Although funds may be available via broader programs, the state can strengthen its computer science programs by creating specific opportunities to bring computer science to school districts, such as matching fund programs.
- Florida has clear certification pathways for computer science teachers.
- Florida **has not yet** established programs at institutions of higher education to offer computer science to preservice teachers. The computer science teacher shortage can be addressed by exposing more preservice teachers to computer science during their required coursework or by creating specific pathways for computer science teachers.
- Florida has a dedicated computer science position in the state education agency.
- Florida requires that all secondary schools offer computer science.
- Florida allows computer science to count for a core graduation requirement. Find out how Florida allows computer science to count towards graduation at <http://bit.ly/9policies>.
- Florida **does not yet** allow computer science to count as a core admission requirement at institutions of higher education. Admission policies that do not include rigorous computer science courses as meeting a core entrance requirement, such as in mathematics or science, discourage students from taking such courses in secondary education. State leaders can work with institutions of higher education to ensure credit and articulation policies align with secondary school graduation requirements.

Follow us!

Join our efforts to give every student in every school the opportunity to learn computer science. Learn more at code.org, or follow us on [Facebook](#) and [Twitter](#).

Launched in 2013, Code.org® is a nonprofit dedicated to expanding access to computer science, and increasing participation by women and underrepresented students of color. Our vision is that every student in every school should have the opportunity to learn computer science.

Data is from the Conference Board for job demand, the Bureau of Labor Statistics for state salary and national job projections data, the

College Board for AP exam data, the National Center for Education Statistics for university graduate data, the Gallup and Google research study Education Trends in the State of Computer Science in U.S. K-12 Schools for parent demand, the 2018 Computer Science Access Report for schools that offer computer science, and Code.org for its own courses, professional learning programs, and participation data.