

# Computer Science Information/Resources for California Educators

Accountability Leadership Institute - December 2015

## Research and Resources

[Searching for Computer Science: Access and Barriers in U.S. K-12 Education](#) by Google and Gallup. 91% of parents want their child to learn Computer Science, but less than 30% of administrators and teachers say Computer Science is a top priority in their school or district. This study discusses the need for all students to have opportunities to become computer literate and to gain foundational computer skills, such as computational thinking and programming/coding. U.S. Bureau of Labor Statistics estimates that jobs in computer and mathematical occupations will increase by 18% in the 10 years leading up to 2022, creating more than 1.3 million job openings by 2022.

[Path Not Found | Disparities in Access to Computer Science Courses in California High Schools](#) by Level Playing Field Institute. This report exposes one of the foundational causes of underrepresentation in computing – a profound lack of access to computer science instruction based on race, socioeconomic status, and linguistic background. Over 75% of schools with the highest percentage of low-income students offer no Computer Science courses. African-American and Latino students make up 59% of California public school students but were just 11% of 2014 AP Computer Science test takers.

[Information Communication Technologies Study](#) by the Latino Institute for Corporate Inclusion (LICI). This study represents a unique partnership among three organizations — AT&T, the Latino Institute for Corporate Inclusion (LICI), and the Career Ladders Project (CLP) — who share a core commitment to enlarging opportunities for diverse Californians, especially among populations historically underrepresented in the ICT workforce. The study focuses on strategies to increase Latino and African-American representation in ICT careers and includes a call to action with recommendations to build tomorrow's ICT workforce.

Model California CTE Standards: [Information and Communication Technologies Sector](#).

Why Computer Science Matters: [ACSA Leadership Magazine Article](#).

SFUSD [Announcement](#) to expand Computer Science to all students at all grade levels. Go to: [tinyurl.com/cs Challenges](http://tinyurl.com/cs Challenges) for insights on how this initiative is being developed and implemented.

## Key Contacts

[ACCESS](#): Alliance for California Computing Education for Students and Schools. Contact Julie Flapan at: [flapan@gseis.ucla.edu](mailto:flapan@gseis.ucla.edu)

[Exploring Computer Science](#): Contact Gail Chapman at: [chapgail@gmail.com](mailto:chapgail@gmail.com)

[C-STEM](#): UC Davis Center for Integrated Computing and STEM Education. Contact Ryan Mangan at: [ramangan@ucdavis.edu](mailto:ramangan@ucdavis.edu)

[PLTW](#): Project Lead the Way. Contact Karen Latuner at: [klatuner@pltw.org](mailto:klatuner@pltw.org)

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