



# Translating Industry Experience into the Classroom



# Who am I?

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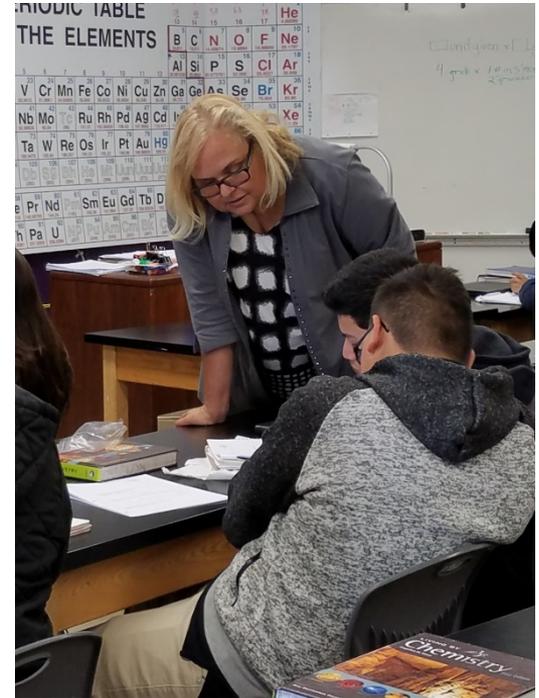
# Raise your hand if you...

...have had an excellent teacher.

...would like to see more diversity in aerospace and the STEM fields.

...have volunteered with K-12 students.

...are an engineer. Manager.  
Researcher. Student. Who else?

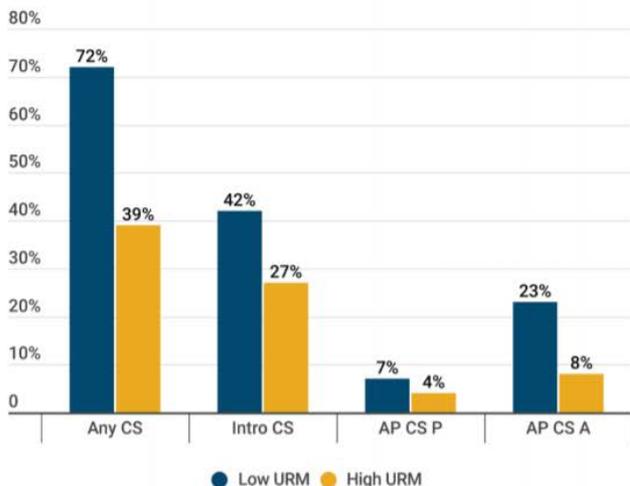


# Inequity in STEM Education

## Only 39% of schools in CA offer computer science education

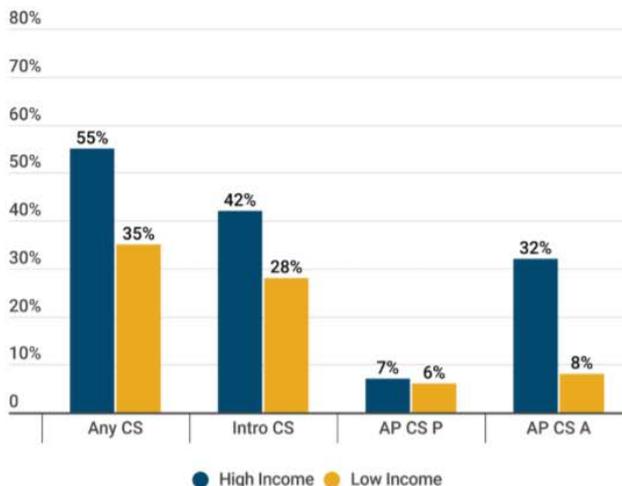
CS COURSE ACCESS GAPS BY SCHOOL DEMOGRAPHICS (2016 – 17)

By School Racial/Ethnic Makeup



\*Definition: High-URM > 90% Black/Latinx/Native American, and Low-URM < 50% Black/Latinx/Native American.

By School Income



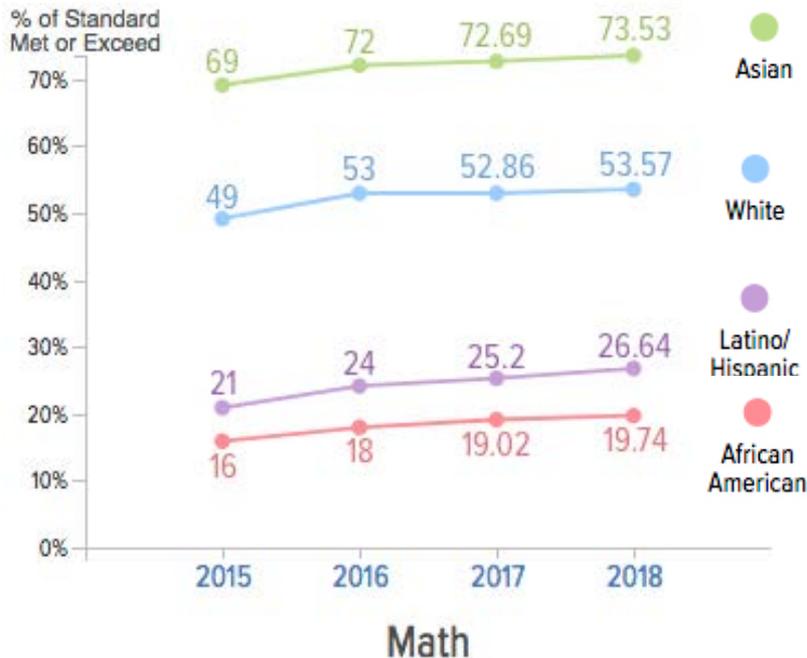
\*Definition: Low-Income > 75% FRPL-eligible, High-Income < 26% FRPL-eligible.

*"It's not a pretty picture, we are not doing an adequate job educating poor kids, black kids, Latino kids."*

*Tyrone Howard, UCLA Education Professor*

# Inequity in STEM Education

## California Assessment of Student Performance and Progress



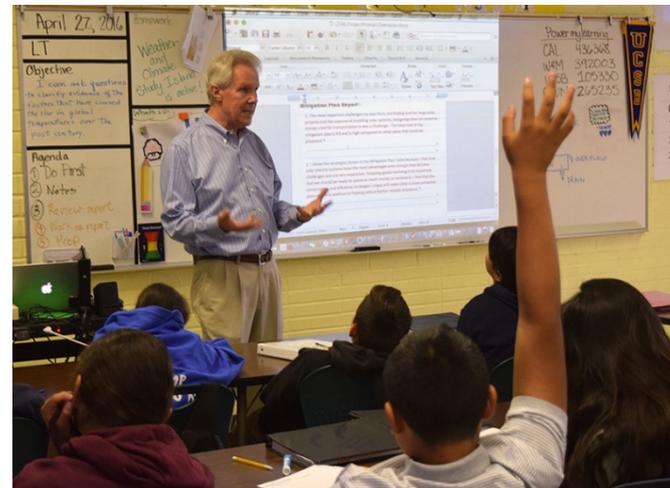
### California Overall

**39%** MATH

# Inequity in STEM Education

## Effective teachers make a measurable difference! How much?

- Encountering an above-average teacher for five years in a row **could overcome the achievement gap**;
- A teacher who performs one standard deviation above the mean effectiveness in a class of 20 students can annually produce **marginal gains of over \$400,000 in present value of student future earnings** (Hanushek, 2011).





# Classrooms in the 21<sup>st</sup> Century

“I saw a spark in those kids and I want to see more of that. I want to see these kids say, yes, that’s what I want to do with my life!”

-EnCorps Teacher, Erika Parker



“At the end of the day, what’s going to be your legacy?”

-EnCorps Teacher, Julian Lewis



**Make an impact.**

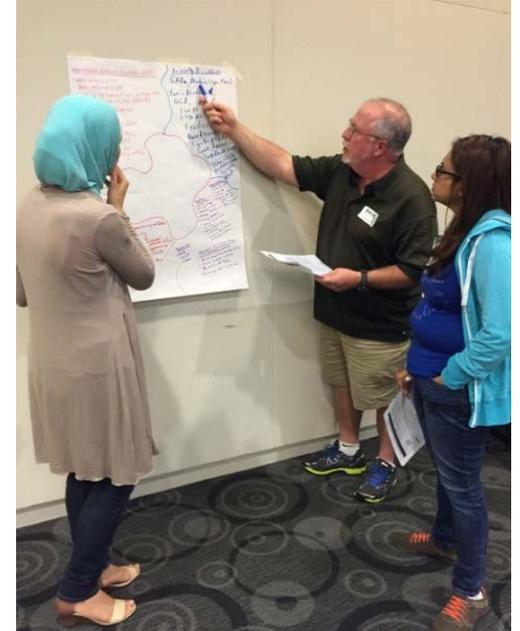
*“I wondered if I could turn my volunteer work into my next profession. EnCorps is attractive because of the resources, support and networking in this new field.”*

*EnCorps Fellow*

# Fellowship & Beyond

## What we offer

- Online professional development modules
- In-person workshops & trainings
- Volunteer time in a classroom with an EnCorps Host Teacher
- Access to:
  - Program support
  - Cohort of peers
  - Scholarship opportunities
- Earn a teaching credential
- Become a teacher by next fall



# Fellowship & Beyond

## Career & Technical Education Credential

### Subject Areas

- Arts, Media, and Entertainment
- Energy, Environment, and Utilities
- Engineering and Architecture
- Business and Finance
- Health Science and Medical Technology
- Information and Communication Technologies
- Manufacturing and Product Development
- Transportation

### Process

- Obtain verifications of employment and official transcripts
- Online coursework beginning October, February or June for 3 months

**Who inspired  
you?**

# Innovate. Empower. Ignite. **TEACH.**

[www.encorps.org/apply](http://www.encorps.org/apply)

*WINTER application deadline:  
November 15, 2019*

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