



# CODING5K CHALLENGE 2019-2020

The Coding5K Challenge seeks to increase access to coding focused programs and deepen the quality of the programming through the use of both assessment tools and expert volunteers. Our goal is to increase our coding capacity to serve 5,000 unduplicated students by the year 2020.

## 2018-2019 ACCOMPLISHMENTS

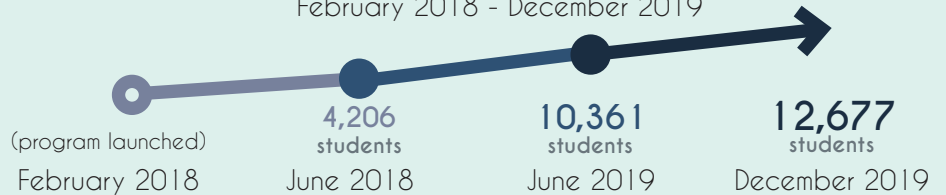
### Program Attendance

July 11 2018 - June 30, 2019



### Coding Experience

February 2018 - December 2019



### Strategic Partnership

with Moreland School District

400

students provided with C5K curriculum and instruction via Moreland School District afterschool programs

### Summer Camps

2018

2019



150 elementary-age students  
40 middle-school students

Co-Ed Girls-Only

### Library Branch Expansion

February 2018 - October 2019



All 25 San Jose Public Library city branches

### Academic Success

70% participants say they are excited to continue learning more about computer science

## 2020 FOCUS AREAS

### Girls-Only Programs

Program Expansion

450 unduplicated students who self-identify as female will participate

### Co-Ed Participation

Program Expansion

40% target participation rate by girls in co-ed C5K activities

### Multilingual Recruitment

Program Expansion

10 pilot multilingual classes to improve bilingual volunteer recruitment

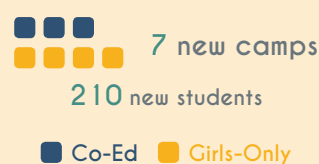
### Coding Experience

Expected Goals



### Summer Camps

Summer 2020



Family engagement events in coding and computer science

Expanded partnership with Moreland School District to teach C5K

## PROGRAM SPONSORS



- Deloitte
- Brigade
- IBM Research -Almaden
- Silicon Valley Leadership Group
- and Individual Donors



# CODING5K CHALLENGE 2019-2020

## WHY CODE?

Coding is a vital skill in STEM careers (Science, Technology, Engineering, Math). STEM careers are the fastest growing professions today, and they pay much higher than the national average. For today's students, coding is key!

### Higher Average Salary



STEM careers pay 29% higher than the national average

### Rapidly Growing Field



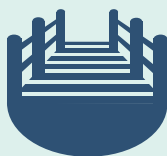
STEM careers are growing 2x faster than non-STEM careers

Coding experience also reinforces academic success and inspires San Jose's diverse population of students to learn, think, and grow in new ways. Coding can teach a student learning as a process rather than a product, and helps improve creativity, risk-taking, and collaboration.

### Learning to Code Boosts:



CREATIVITY



RISK-TAKING



COLLABORATION

## PARTNER WITH US!

Silicon Valley powers world innovation, and our children should be a part of that. The City of San José is committed to providing more opportunities for coding experience to students across our city, and especially in underrepresented neighborhoods. The program will be hosted in all 25 San Jose Public Library branches.



Silicon Valley boasts a variety of STEM-based career opportunities



There are more than **270,000** children K-12 in San Jose alone

## VOLUNTEERS NEEDED

- Lead and facilitate multi-week coding series
- Teach and mentor students at summer coding camps
- Host one-time coding introductory classes

## CURRICULUM DEVELOPMENT

- Develop new curriculum based on industry experience and skillsets
- Help tailor programs based on industry need

\*Spanish & Vietnamese speaking volunteers are especially valuable!