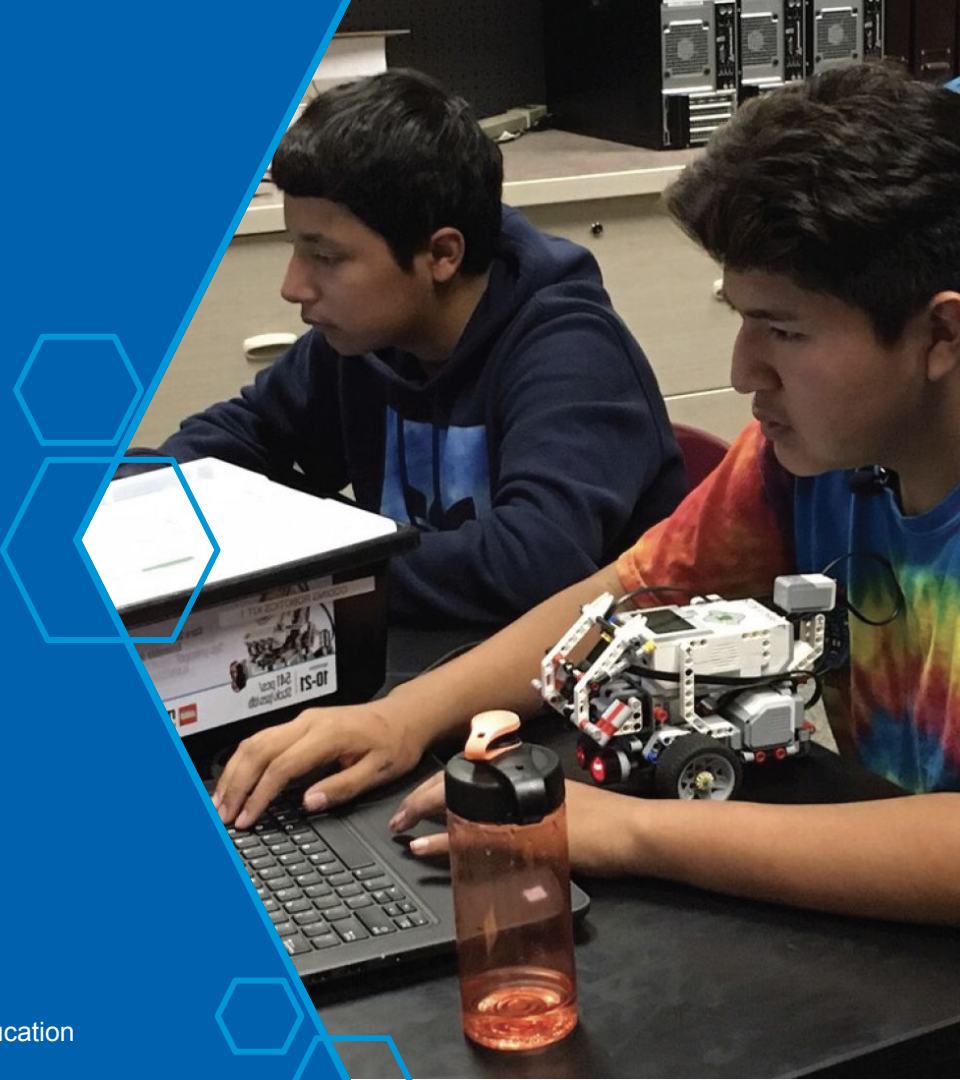


# NATIVE AMERICAN CODE WRITERS PROGRAM



Never stop wondering.  
Never stop imagining.™

Funded in part by the Arizona Department of Education

# OVERVIEW

- The Native American Code Writers program (NACWP) was initiated and funded by the Arizona Legislature in April 2016, and renewed in April 2018 and April 2022 in order to increase access to computer science for Native American students
- The Arizona Department of Education (ADE)-Office of Indian Education and the Indian Education Advisory Council provide program oversight and support
- Through a competitive RFP process, Science Foundation Arizona (SFAz) was awarded funding for the facilitation of the program in 2017 through 2019
- In 2022, Arizona Science Center was awarded grant funds through a competitive RFP process



# THE TEAM



**Linda Coyle**



**Mary Aleta White, Ph.D.**

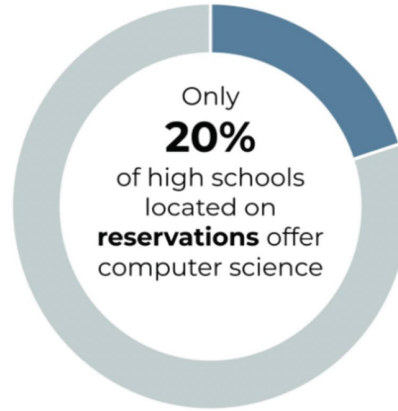


**Jill Jones**



**Beth Nickel**





- The Native American Code Writers program targets Native American students and their teachers in order to teach Computer Science (CS) to 100 high school students yearly, across six reservations
- The CS content is designed to help students think critically, problem-solve, and work with technology integration using app development, gaming, website design, multimedia, cyber security and robotics

## NATIONAL

When comparing the percentage of Native American/Alaskan students who took any AP CS exam during the 2019-2020 school year you will note that, nationally, these students made up 0.99% of the total student population and represented 0.46% of students taking an AP CS exam.

**0.99%** OF TOTAL STUDENT  
POPULATION

**0.46%** OF STUDENTS  
TAKING THE EXAM

## ARIZONA

In Arizona, Native American/ Alaskan students made up 5.15% of the student population, but only represented 0.89% of students taking an AP CS exam that year. When equitable practices are in place, the percentage of students taking an AP CS exam is in alignment with the total student population.

**5.15%** OF TOTAL STUDENT  
POPULATION

**0.89%** OF STUDENTS  
TAKING THE EXAM

# DID YOU KNOW?

12%

According to Code.org, studies show that students who take AP Computer Science Principles are 12% **more likely to enroll in college** compared to similarly-situated peers.

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17%

Students who take any AP computer science course are 17% **more likely to attend college**. Further, students who take AP exams are more likely to graduate 4-year college, even when they don't pass the exam.

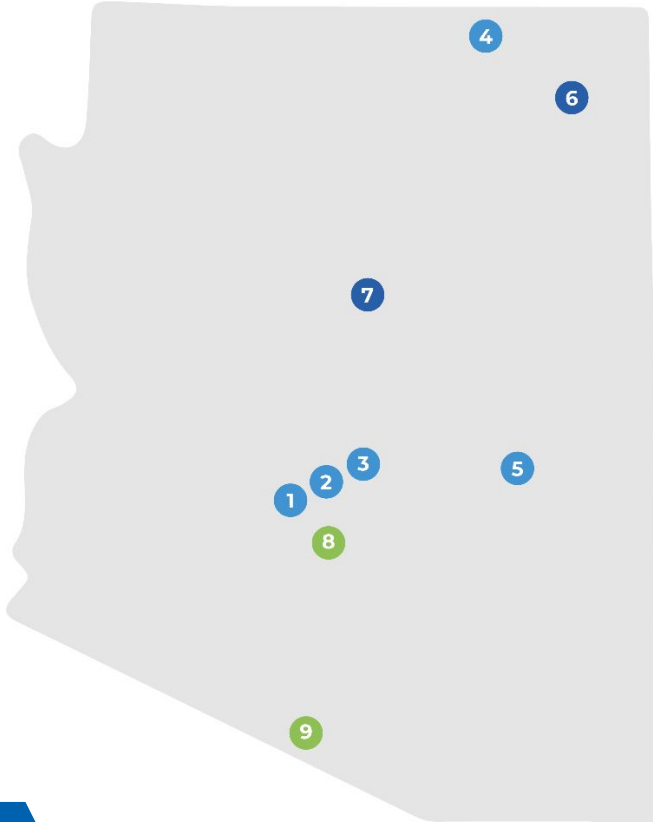
# WHAT'S INCLUDED?

## Each NACWP Partnering School is Provided

- A comprehensive, year-long computer science professional development program through Arizona Science Center and Code.org
- Funding for computer science equipment, robotics, teacher travel to training and conferences
- Support and guidance with an articulated K-12 pathway for feeder elementary and middle schools, into the sponsored high schools and the local community colleges and universities
- Opportunities for students to participate in internships and mentoring programs with business and industry partners
- Ongoing support through monthly coaching sessions and meetings with other CS teachers



# NACWP SCHOOLS



## ORIGINAL GRANT

- 1 PHOENIX, AZ**  
**Cesar Chavez High School**  
GILA RIVER INDIAN COMMUNITY (GRIC)
- 2 SCOTTSDALE, AZ**  
**Salt River High School**  
SALT RIVER PIMA MARICOPA INDIAN  
COMMUNITY (SRP-MIC)
- 3 FOUNTAIN HILLS, AZ**  
**Fountain Hills High School**  
FORT MCDOWELL YAVAPAI NATION  
(FMYN)
- 4 SHONTO, AZ**  
**Shonto Preparatory Academy**  
NAVAJO NATION
- 5 WHITERIVER, AZ**  
**Alchesay High School**  
WHITE MOUNTAIN APACHE TRIBE

## CONTINUING WITH GRANT

- 6 CHINLE, AZ**  
**Chinle High School**  
NAVAJO NATION
- 7 FLAGSTAFF, AZ**  
**Flagstaff High School**  
NAVAJO & HOPI NATIONS

## NEW TO GRANT SCHOOL

- 8 CHANDLER, AZ**  
**Skyline Gila River High School**  
GILA RIVER INDIAN COMMUNITY (GRIC)
- 9 SELLS, AZ**  
**Baboquivari Secondary School**  
TOHONO O'ODHAM NATION

## GRANT STATUS

ORIGINAL GRANT

CONTINUING WITH GRANT

NEW TO GRANT SCHOOL



# TEACHER FEEDBACK

## Program Highlight

..."students had access to opportunities in computer science and gain knowledge about the field".

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## Why participate

"I always need to learn more so I can adapt to novel methods and materials to teach. I want to learn more so I can teach students even more cs content so they can be certified in field."

