



Microsoft Philanthropies

TEALS Program

Computer science in
every high school



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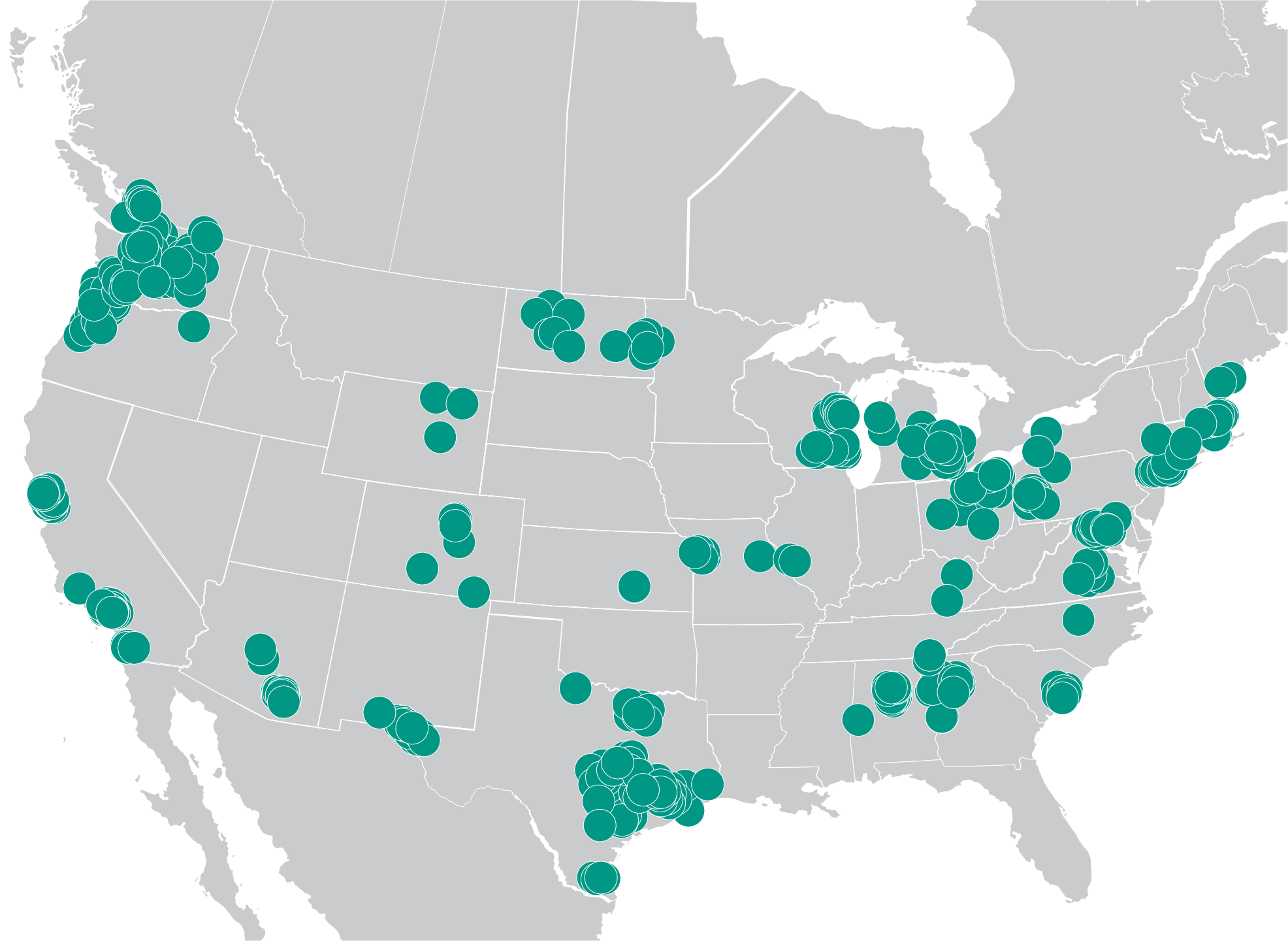
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Making a change in computer science education with TEALS



TEALS Program









TEALS Program

TEALS (Technology Education and Literacy in Schools) pairs trained computer science (CS) professionals with high school teachers to help build CS teaching capacity.

- A **community** of teachers and volunteer industry professionals working together
- Rigorous **curricula and resources** developed by CS educators and industry professionals
- A **pathway** for students to learn CS

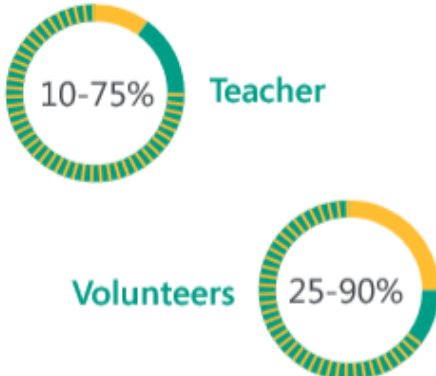
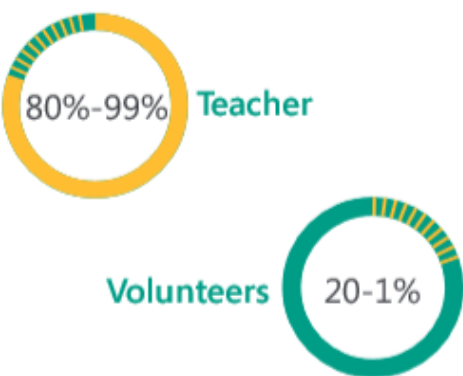



By the Numbers

Schools	Students	Volunteers
 625 TEALS schools	 21,000 Students	 750 Companies and organizations represented
 921 CS classes	 35% Female	 1,800 Tech volunteers

*2019-2020 school year

How TEALS Supports Your School

	Co-Teach model	Lab support model	Alumni program
Who's doing the teaching?	 <p>10-75% Teacher</p> <p>Volunteers 25-90%</p>	 <p>80%-99% Teacher</p> <p>Volunteers 20-1%</p>	 <p>100% Teacher</p>
Teacher's role in the classroom	<ul style="list-style-type: none">• Classroom and teaching team management• Learning computer science• Completing all assignments• Leading lessons at capacity	<ul style="list-style-type: none">• Classroom and teaching team management• Leading 80%+ of lessons• Continue refining CS understanding	<ul style="list-style-type: none">• Teaching computer science independently of TEALS
Volunteer engagement in the classroom	4-5 days a week	2-5 days a week	Online community of expert volunteers

TEALS and Supported Partner Curricula

	Introduction to Computer Science	AP Computer Science Principles	AP Computer Science A
Description	A semester or full-year course that explores a variety of basic computational thinking and programming concepts through a project-based learning environment.	A full-year course covering the fundamentals of computing including creativity, programming and global impact. All curriculum providers cover the same major areas of study.	A full-year course focused on object-oriented programming and problem solving in Java. Equivalent to a first-semester, college level course in computer science.
Models Supported	Co-Teach and lab support	Lab support	Co-Teach and lab support
Curriculum Providers	<ul style="list-style-type: none">• TEALS Program• CMU CS Academy	<ul style="list-style-type: none">• Code.org• Beauty and joy of computing• Mobile CSP• Project lead the way• UTeach	<ul style="list-style-type: none">• TEALS Program• TEALS Partner providers
Where can I learn more?	http://aka.ms/TEALSintro	http://aka.ms/APCSPprinciples	http://aka.ms/APCSA

Remote Teaching

TEALS' Rural and Distance program reaches students that have the least access to expertise in computer science. Leveraging a proven virtual classroom 150+ courses will be taught remotely this year.

What Types of Schools:

- Schools in rural areas
- Communities with limited local technology professionals
- Inner-city schools in metro areas where commutes impact volunteer availability

How to Prepare:

- Sufficient bandwidth, headsets, and webcams to connect students with volunteers
- TEALS training for teachers and their teaching teams to prepare for remote instruction
- Enlist a partner IT liaison for initial installation and ongoing support

How it Works:

- Students and teacher log into virtual classroom
- Volunteers lead interactive instruction during the class period
- During lab time, volunteers meet 1:1 with students



Diversity & Inclusion

TEALS provides resources and strategies to partner with schools to provide an inclusive learning space, enroll a diverse set of students, and leverage inclusive teaching practices.

Inclusive Learning Space

Creating learning environments that are accessible and welcoming of students' identities, backgrounds, differences and perspectives without barriers or judgment.

Diversity in enrollment and change

Ensuring CS courses and programs have student enrollment rates that reflect the demographics of the larger school or community population, particularly in terms of race, ethnicity, gender and disability status.

Inclusive instruction

Instructional practices and learning experiences that actively take into account the context of youth in terms of interests, identities, cultural and linguistic practices, and histories.

TEALS Volunteers

Volunteer recruitment and retention are a **joint effort** between schools and TEALS

Volunteers from **750+** companies across many industries are represented

Trained in instruction, teaching, and working with students



School Partnership Requirements

Potential school costs	<ul style="list-style-type: none">• Costs incurred by volunteers (e.g. background check)-up to \$500pp• Curricular resources• Remote teaching equipment (as applicable)
Class meeting time	First period of the day
TEALS volunteer recruitment	Engage with the local community and your school's/district's network to share this volunteer opportunity
Data sharing	<ul style="list-style-type: none">• TEALS classroom demographics• Student and teacher course experience survey• AP scores (if applicable)
Recruit classroom teacher	<ul style="list-style-type: none">• 2+ year teaching experience• Attends required curriculum training and TEALS training• Commits to becoming a CS champion in the school
Identify school staff partners	<ul style="list-style-type: none">• School administration contact• District contact (as applicable)• IT liaison (as applicable)

Going Forward

Application (Nov-Feb)

Select curriculum &
recruit teacher

Submit Application
to TEALS

- Requires
 - Classroom Teacher
 - District Contact
 - School Administration Contact

Onboarding (Jan-May)

TEALS Interview

Schedule CS class
during 1st period
of day

Recruit & enroll
students

Recruit volunteers
through school
community &
network





Thank you!

Learn more: Microsoft.com/TEALS

