



Shaping National STEM Success

Quality Teaching +
Student Outcomes

UTeach
Institute



NATIONAL
MATH + SCIENCE
INITIATIVE

We Prepare Teachers. They Change the World.

45 universities | 5,278 graduates | Exponential Impact

UTeach is an innovative, university-based teacher preparation program working to increase the number of qualified STEM teachers in U.S. secondary schools. STEM majors earn a secondary teaching certification without adding time or cost to their four-year degree. Our graduates **stay in teaching longer than teachers from other teacher preparation programs,¹ improve student performance in math and science², and could potentially influence students to enter STEM fields.**



Increasing Student Learning

UTeach uses proven, inquiry-based teaching methods, preparing STEM majors to become inspiring and effective teachers.



OF SCIENCE

Students of UTeach graduates gain the equivalent of nearly **six additional months** of science and **four additional months** of math learning.¹



OF MATH



OF BIOLOGY &
ALGEBRA

UTeach graduates boosted student learning by an equivalent of nine months of schooling in both **Algebra I and Biology** for gifted students, and five months of schooling in Biology for **Latino and economically disadvantaged students.**¹



OF BIOLOGY



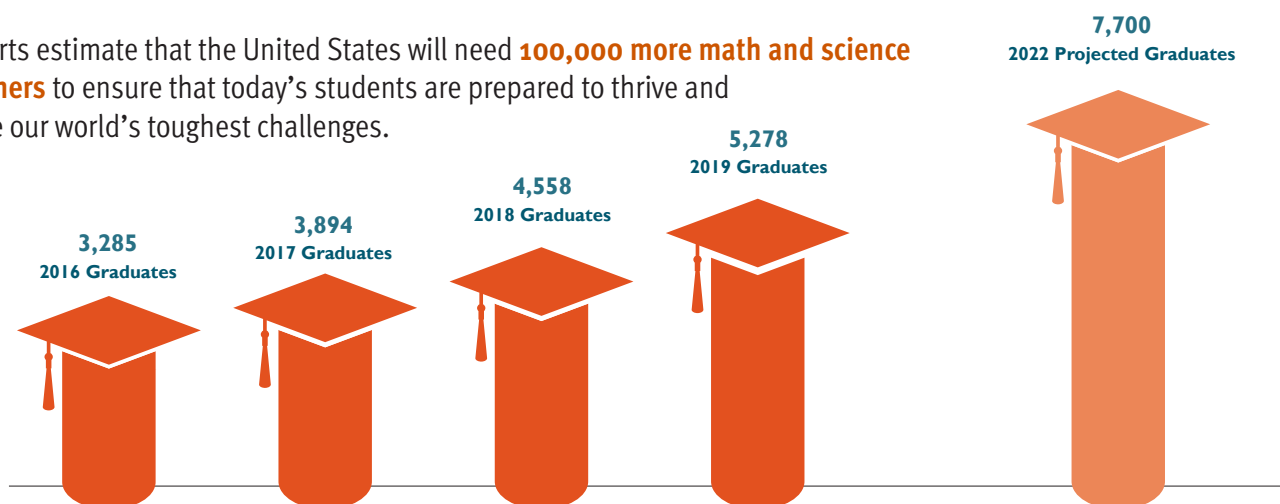
“You engaged us and made us actually look at how things worked and why they worked — not only in problems, but also in practical applications. You really changed my love of science into an understanding of what I want to do for a living.”

— Student of a UTeach teacher from The University of Texas at Austin

Building the STEM Teacher Pipeline

A strong, STEM-capable workforce is critical to U.S. innovation and economic prosperity, but **a lack of highly qualified STEM teachers** is causing our country to fall behind in producing STEM professionals. **UTeach is helping fill this gap** by graduating more STEM teachers.

Experts estimate that the United States will need **100,000 more math and science teachers** to ensure that today's students are prepared to thrive and solve our world's toughest challenges.



By 2024, UTeach graduates are expected to teach 6 million secondary students nationwide.

Preparing More STEM Teachers at a Lower Cost

Funded by public funds and private gifts, UTeach produces teachers active in the classroom at **two to four times less cost** than other leading programs. UTeach graduates also **stay in teaching for an average of seven years** — up to three times longer than teachers from other leading teacher preparation programs.

In a period when national teacher production declined by 20%, **STEM teacher production at UTeach universities climbed by 40%.³**

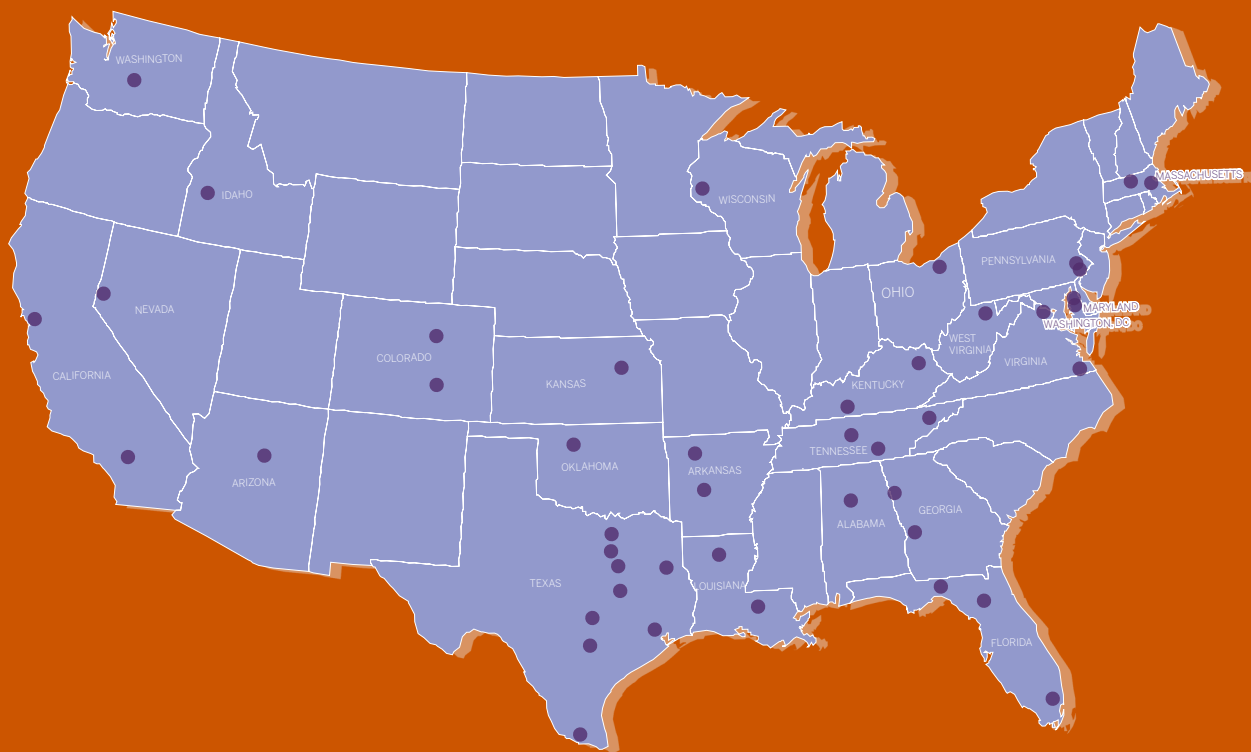
Nearly 70% of UTeach graduates are teaching in K-12 schools with a majority low-income population.



¹Marder, M., & Hamrock, C. (2016, working paper). Math and science outcomes for students of teachers from standard and alternative pathways in Texas. uteach.utexas.edu/uteach-blog/students-uteach-graduates-learn-more

²Backes, B., Goldhaber, D., Cade, W., Sullivan, K., & Dodson, M. (2016, working paper). Can UTeach? Assessing the relative effectiveness of STEM teachers. Washington, DC: American Institutes for Research. www.caldercenter.org/publications/can-uteach-assessing-relative-effectiveness-stem-teachers

³U.S. Department of Education. (2016). 2016 Title II Report: National Teacher Preparation Data. Retrieved from <https://title2.ed.gov/Public/SecReport.aspx>



UTeach Partner Programs

Alabama

University of Alabama at Birmingham

Arizona

Northern Arizona University

Arkansas

University of Arkansas

University of Central Arkansas

California

University of California, Berkeley

University of California, Irvine

Colorado

University of Colorado, Boulder

University of Colorado, Colorado Springs

Florida

Florida International University

Florida State University

University of Florida

Georgia

Columbus State University

University of West Georgia

Idaho

Boise State University

Kansas

University of Kansas

Kentucky

Morehead State University

Western Kentucky University

Louisiana

Louisiana State University

Louisiana Tech University

Maryland

Towson University

University of Maryland, College Park

Massachusetts

University of Massachusetts Boston

University of Massachusetts Lowell

Nevada

University of Nevada, Reno

Ohio

Cleveland State University

Oklahoma

Oklahoma State University

Pennsylvania

Drexel University

Temple University

Tennessee

Middle Tennessee State University

The University of Tennessee,

Chattanooga

The University of Tennessee,

Knoxville

Texas

Stephen F. Austin State University

University of Houston

University of Houston-Clear Lake

University of North Texas

The University of Texas at Arlington

The University of Texas at Austin

The University of Texas at Dallas

The University of Texas Rio Grande Valley

The University of Texas at San Antonio

The University of Texas at Tyler

Virginia

Old Dominion University

Washington

Central Washington University

Washington, D.C.

George Washington University

West Virginia

West Virginia University

Wisconsin

University of Wisconsin River Falls*

*affiliate UTeach program

Muhammad Jan Biology Teacher, AL | UTeach Alumnus

“I would never have become a teacher and impacted my students if it wasn’t for my program and the support they gave me.

Imagine entire schools, districts, and states filled with educators who understand how education should be for students with effective, research-based teaching.”

