

UTeach Impact

We prepare teachers. They change the world.

A strong STEM-capable workforce is critical to U.S. innovation and economic prosperity, but **we are falling behind** in production of STEM professionals. We need at least 1 million more STEM professionals over the next decade—34% more than we are currently producing. Additionally, women and minorities continue to be underrepresented in the pool of STEM graduates.

UTeach has the solution. UTeach prepares teachers with deep content knowledge and inquiry-based pedagogical strategies. UTeach programs produce teachers at a lower cost than other leading programs, and our graduates stay in teaching longer, improve student performance in math and science, and influence students to enter STEM fields.

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.

UTeach programs prepare STEM teachers for less

UTeach programs produce teachers at a lower cost than other leading programs.

Leading national post-baccalaureate model



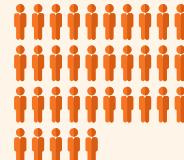
UTeach model



UTeach graduates stay in schools longer.



teachers stay in teaching for an average of 2.1 years, resulting in 142 active STEM teachers.



teachers stay in teaching for an average of 5 years, resulting in 350 active STEM teachers.

Since UTeach graduates stay in teaching longer, the average cost per year of teaching is much lower.

Leading national post-baccalaureate model

\$25,000

VS.

UTeach model

\$5,700

Cost per year of teaching

UTeach graduates increase student learning

UTeach uses proven inquiry-based teaching methods to prepare STEM majors to be inspiring and effective teachers.



additional learning
in math



additional learning
in science

An independent research study found that secondary students of UTeach graduates gain an additional 4 months of learning in math and 5.7 months in science.



“ I teach because we’re preparing citizens. This country will be theirs and we need them making the best decisions possible. ”

Michael Ralph,
UKanTeach graduate,
University of Kansas



additional
schooling in
Algebra I & Biology
for Gifted
students



additional
schooling in
Biology for Economically
Disadvantaged
and Hispanic students

A UTeach study found significant advantages for students of UTeach graduates of around 9 months of schooling in both Algebra I and Biology for Gifted students, and 5 months of schooling in Biology for Economically Disadvantaged and Hispanic students.



“ 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

Footnotes

Backes, 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

Marder, 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

UTeach provides a high return on investment

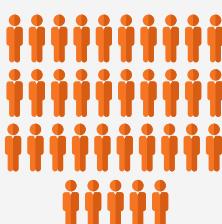
UTeach graduates inspire their students and influence them to go into STEM fields.

70 UTeach
graduates
per year



who stay
in teaching
for an average
of 5 years

350 UTeach
teachers
in schools



1 person = 10 graduates

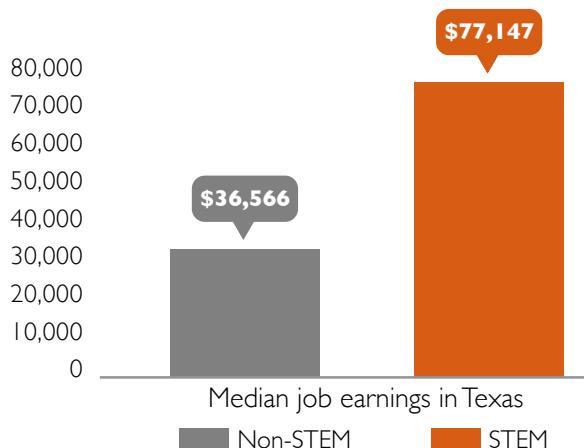
1 person = 10 teachers

if each teacher influences
just one more student per year to
go into STEM, 350 more students
will enter STEM fields annually



1 symbol = 10 STEM professionals

Median STEM vs. non-STEM annual earnings in Texas



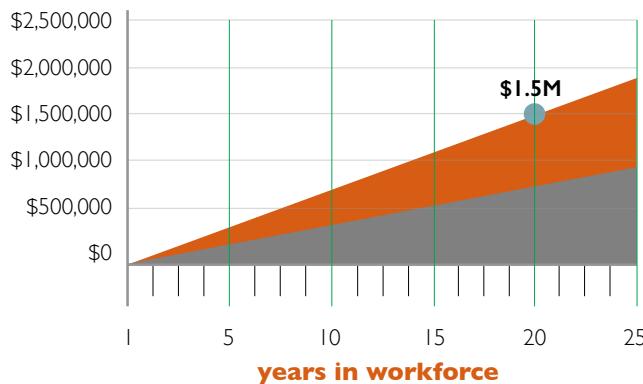
annual increase
in Texas
state tax
revenue per
STEM
professional

\$3,002

“Her love of
science helped me
discover my own
and influenced my
decision to go for
a science major in
college.”

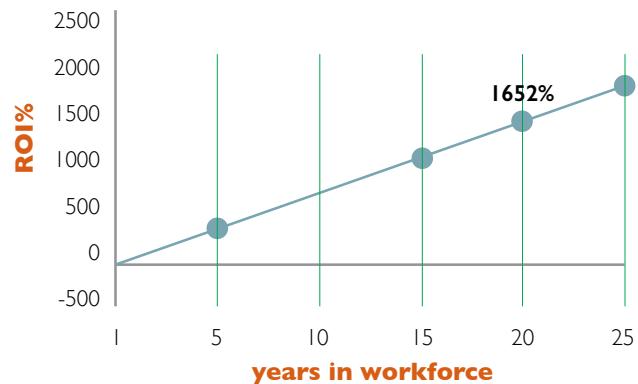
Student of a UTeach teacher
from The University of
Texas at Austin

Cumulative lifetime earnings



Cumulative median earnings in a STEM field
Cumulative median earnings in a non-STEM field

Minimum ROI to the state of Texas



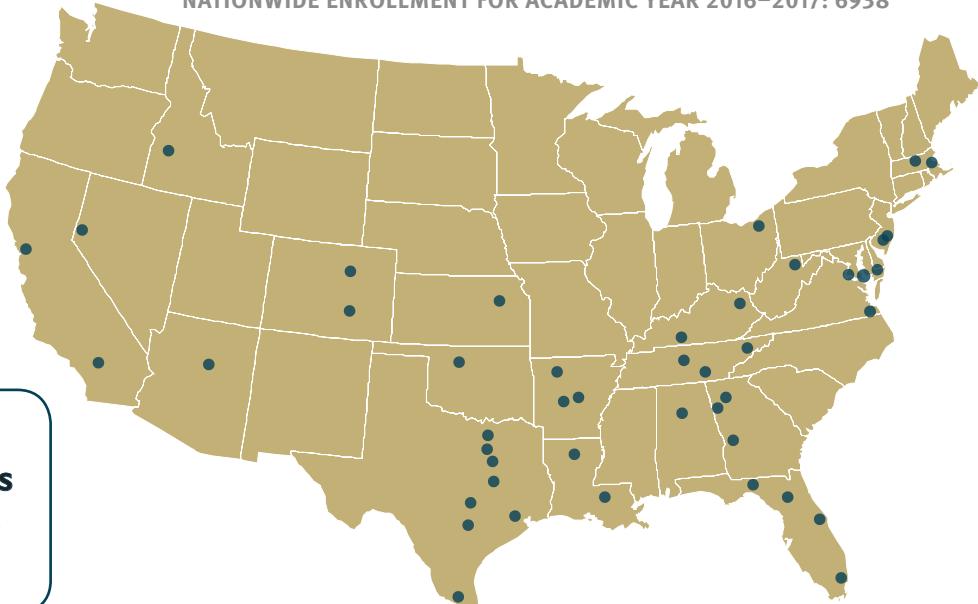
+350 additional STEM professionals created
+\$1M increased government revenue

UTeach is scalable

Since 2006, UTeach has expanded to 45 universities in 21 states and the District of Columbia.

61% of UTeach graduates are teaching in K-12 schools with a majority low-income population.

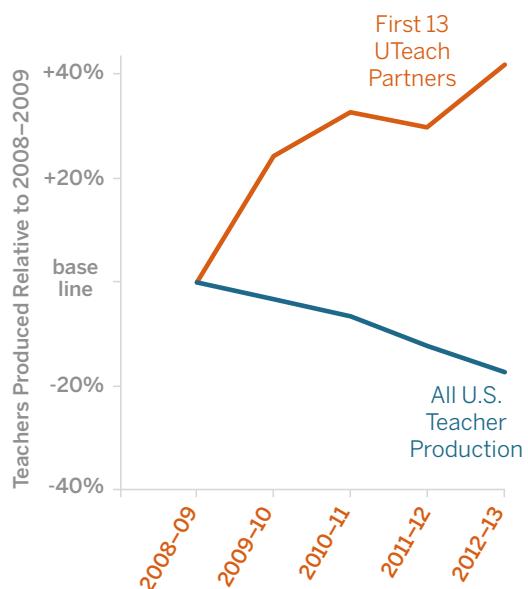
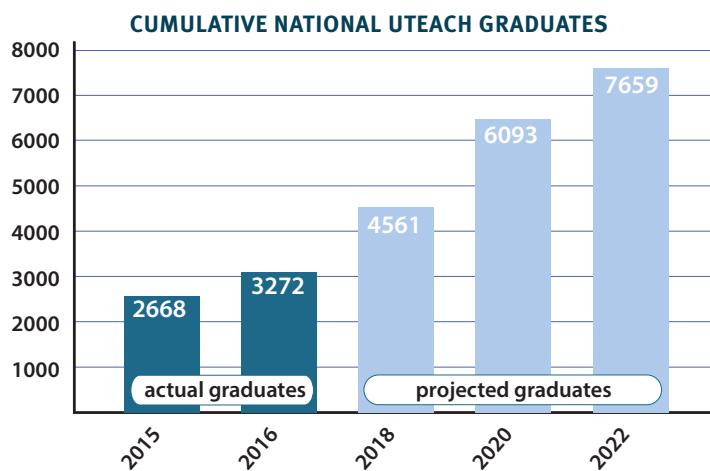
UTEACH NATIONAL EXPANSION
NATIONWIDE ENROLLMENT FOR ACADEMIC YEAR 2016–2017: 6938



“Their mission is not just math and science. It’s math and science for everyone.”

Jill Marshall, Associate Professor, Department of Curriculum and Instruction, The University of Texas at Austin

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



“Bringing the UTeach program to UAB has transformed STEM teacher preparation in an amazing way! Enrollment has soared, and excitement about UABTeach has spread across the campus.”

Lee Meadows, UABTeach Co-Director, University of Alabama, Birmingham



UTeach Institute

WE PREPARE TEACHERS. THEY CHANGE THE WORLD.

The University of Texas at Austin | College of Natural Sciences
info@uteach.utexas.edu | www.uteach-institute.org

The UTeach Institute supports a national community that improves STEM education by increasing the number of high-quality teachers and improving access to inquiry-based curriculum. See the technical supplement to this report for more information: uteach-institute.org/uteach-impact.