



## STEM TEACHER PATHWAYS



### Muhammad Jan

UTeach Graduate  
Teacher at Woodlawn  
High School, AL

“UABTeach set me up for inquiry-based learning. Now, we’re doing hands on activities almost every single day, and it’s just amazing.”

### DID YOU KNOW?

Students of UTeach graduates have demonstrated the equivalent of four additional months of learning in math and nearly six additional months in science during a single school year<sup>2</sup>

### NEXT STEPS

To learn more about the program, visit <https://institute.uteach.utexas.edu/>

To discuss starting or supporting a UTeach program, contact your NMSI representative or email [customerservice@nms.org](mailto:customerservice@nms.org).

## Preparing Excellent STEM Teachers

Since 2007, the National Math and Science Initiative and the UTeach Institute at The University of Texas at Austin have collaborated to increase the number of effective math and science teachers graduating from colleges and universities across the country. The work is paying off, with UTeach graduates staying in classrooms longer than their peers, increasing access to STEM education and empowering greater success for their students.

### The Challenge

50%

of high schools in the U.S. don't offer calculus



40+ states report teacher shortages in math and science

more than  
1/2

of all school districts have trouble retaining certified, knowledgeable STEM teachers

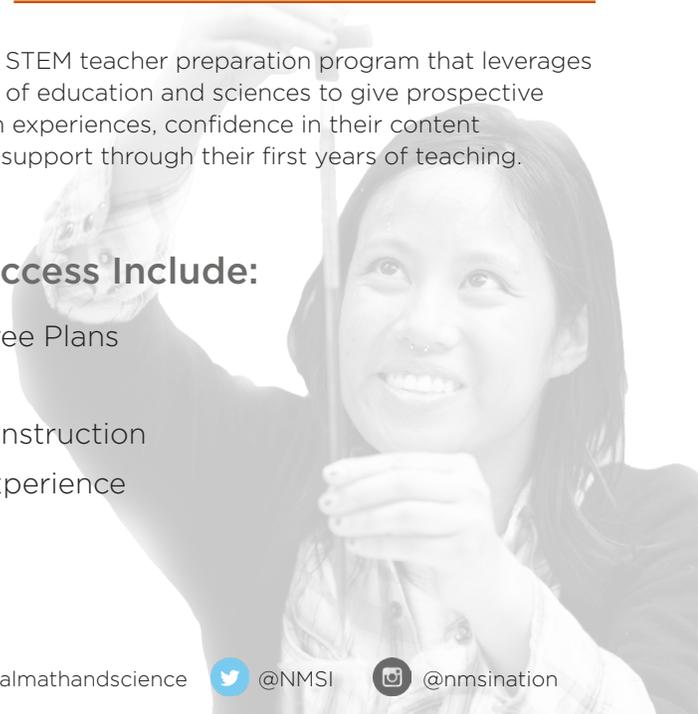
**Our vision is that every school in the nation is fully staffed in STEM and schools have the talent they need to offer a full suite of STEM courses.**

### What is UTeach?

UTeach is a unique, university-based STEM teacher preparation program that leverages the best aspects of existing colleges of education and sciences to give prospective STEM teachers immediate classroom experiences, confidence in their content knowledge, effective pedagogy and support through their first years of teaching.

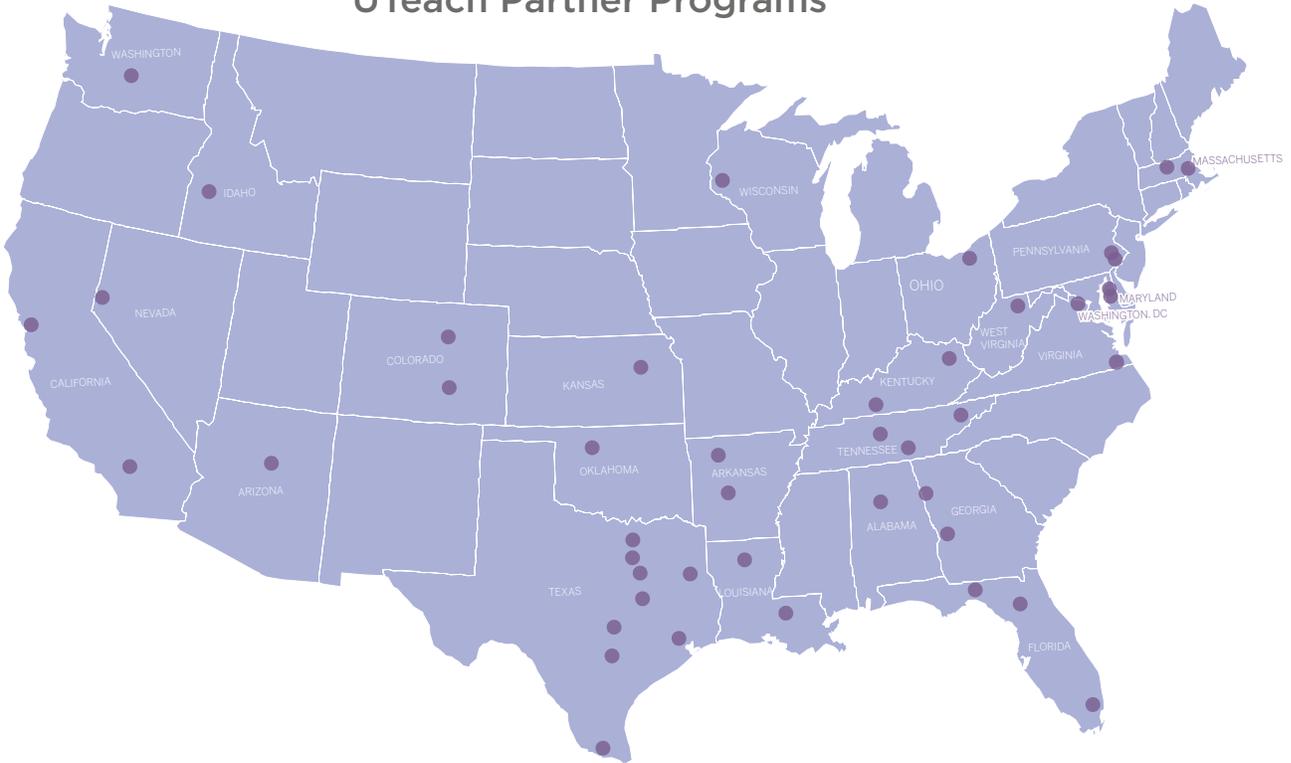
### UTeach Elements of Success Include:

- Compact and Flexible Degree Plans
- Dedicated Master Teachers
- Rigorous, Research-Based Instruction
- Early and Intensive Field Experience



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

## UTeach Partner Programs



See the full list of universities at [www.nms.org/UTeachSites](http://www.nms.org/UTeachSites)

### Reach

**45+** UTeach partner programs

**5.2K** STEM teachers graduated with nearly a third identifying as people of color

**50%** STEM majors who indicate interest in teaching

### Impact

**87%** of UTeach graduates teach math or science

**5 yrs.** spent teaching in the classroom, compared to two years nationally

**61%** teach in Title 1 public schools

### By 2023, we will:

**1** Eliminate shortages in key areas

**2** Spur innovation in teacher prep

**3** Refine and replicate the UTeach model

## Custom Solutions

NMSI and the UTeach Institute have the expertise needed to strengthen existing university STEM teacher preparation programs, add new pathways and develop custom solutions that best meet local needs.

NMSI and the UTeach Institute also have served as an informed convener to connect local education agencies and teacher preparation programs to meet existing school needs and prepare new teachers.

*Marder, Michael R., Brown, Casey R., and Pilsch, Monica. Recruiting Teachers in High-Need STEM Fields: A Survey of Current Majors and Recent STEM Graduates. American Physical Society Panel on Public Affairs. January 2017.*