

## 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 6 additional months in science during a single school year

### 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@nmsi.org](mailto:customerservice@nmsi.org).

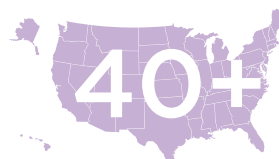
## Preparing Excellent STEM Teachers

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 highly qualified math and science teachers graduating from colleges and universities across the country. In 2018, they affirmed their commitments to support existing UTeach programs and launch additional UTeach programs.

### The Challenge

50%

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



states report teacher  
shortages in math and  
science

more than  
1/2

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

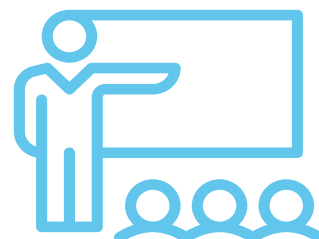
Our vision is that every school in the nation is fully staffed in STEM and schools have the talent they need to offer a full suite of STEM courses.

### What is UTeach?

The UTeach program 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 continuing support through their first years of teaching.

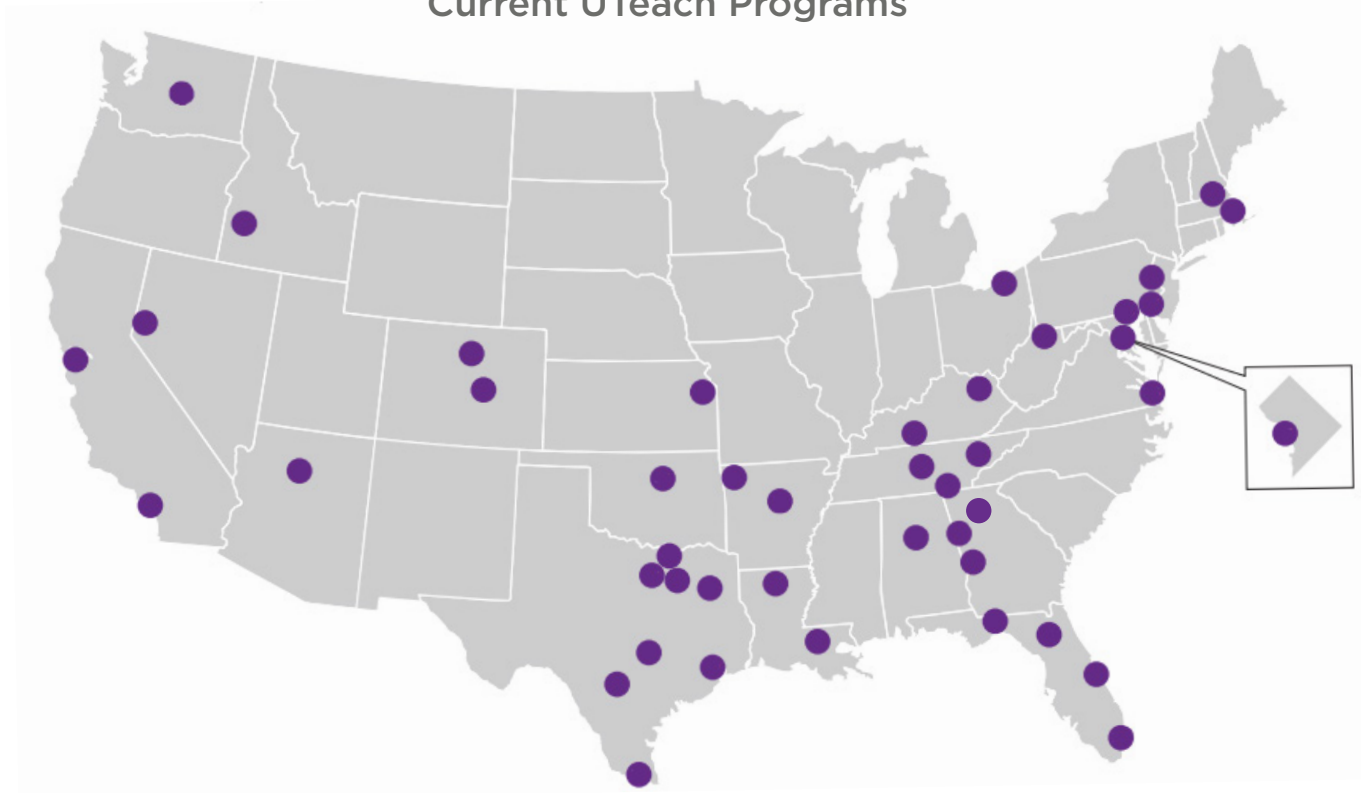
### UTeach Elements of Success Include:

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



**By 2020, UTeach graduates are expected to teach five million secondary students nationwide.**

### Current UTeach Programs



#### Reach

**45** UTeach program launched

**3.8K** STEM teachers graduated with nearly a third identifying as people of color

**50%** STEM majors who indicate interest in teaching<sup>1</sup>

#### Impact

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

**5 years** spent teaching in the classroom, compared to 2 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 are experienced in supporting additional teacher preparation systems, such as residencies, and are positioned to consider those and other 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.

<sup>1</sup>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.