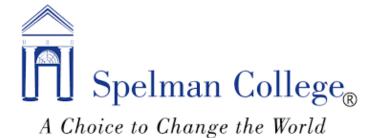
STRENGTHENING THE STEM TEACHER WORKFORCE THROUGH STRATEGIC PARTNERSHIPS

UIDP, Mission in Motion Atlanta, GA March 29, 2022

UTeach







Dr. Valeisha Ellis, Spelman College
Dr. Jacquita Henderson, Clark Atlanta University
Kimberly Hughes, UTeach, University of Texas at Austin
Dr. Michael Marder, UTeach, University of Texas at Austin
Korey Hawkins, Microsoft

AGENDA

- Critical Contributions of HBCUs
- National STEM Teacher Workforce Trends
- What we Know from Research
- Effective University-Based Models: UTeach
- Leveraging partnership between HBCUs and UTeach
- Discussion and Q&A

HBCUs PUNCHING ABOVE THEIR WEIGHT

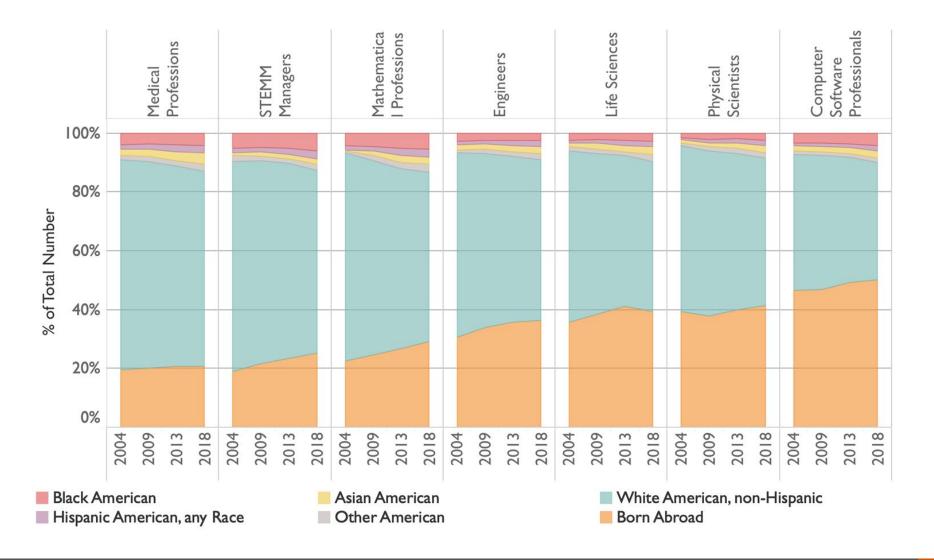
Across the 21 states and territories where HBCUs are located, in 2016 they...

- Comprised 9% of four-year institutions
- Enrolled 24% of all black undergrads pursuing a bachelor's degree
- Awarded 26% of all black bachelor's degrees
- \bullet Awarded 32% of STEM bachelor's degrees earned by black students

*2016 data

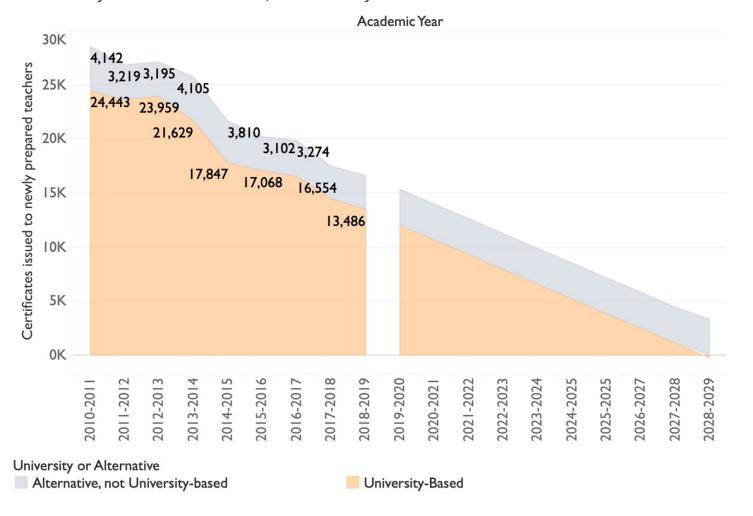
A State-Level Analysis of Historically Black College and University Enrollment and Graduation*

STEM Workforce



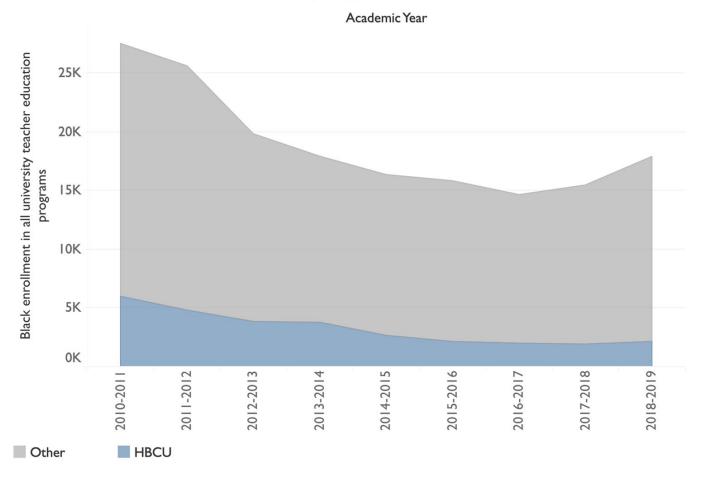
STEM TEACHER PRODUCTION FOR US

Secondary STEM Certificates, selected by Area



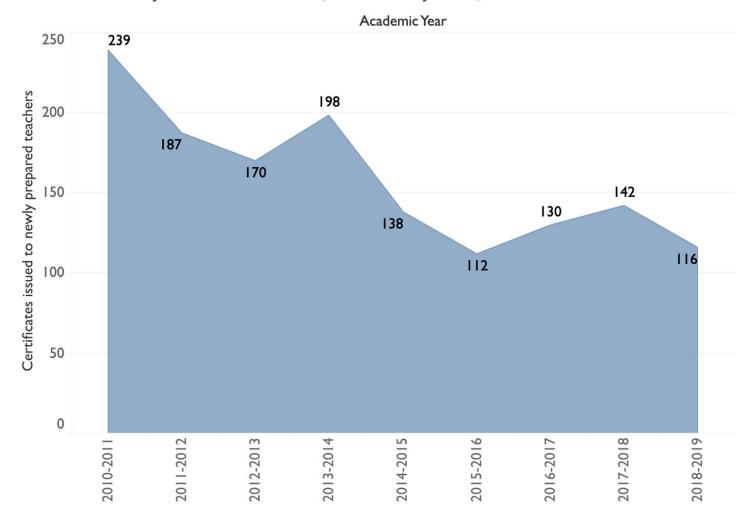
BLACK ENROLLMENT IN ALL UNIVERSITY TEACHER PROGRAMS

Black Students Enrolled in University Programs



HBCU STEM TEACHER PRODUCTION

HBCU Secondary STEM Certificates, selected by Area,

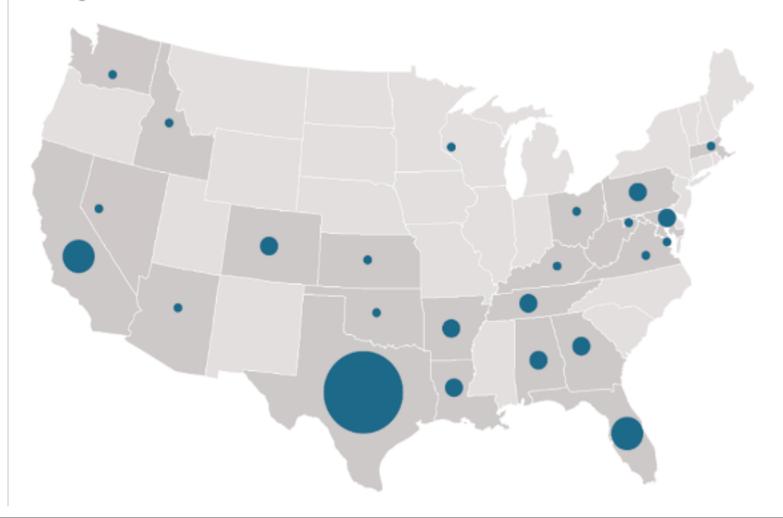


RESEARCH ON TEACHER RETENTION & QUALITY

- Contributions of HBCU's
- Learning gains for students of UTeach teachers
- Retention and learning gains for students of university-prepared teachers
- The response to shortage should lay the groundwork for a sustainable solution

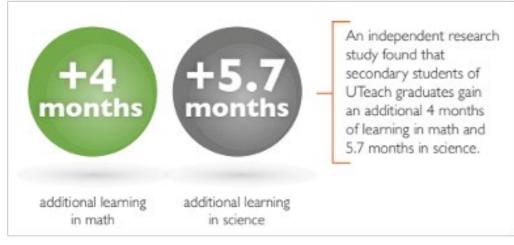
UTeach 49 universities | 6,870 graduates | Exponential Impact

We prepare teachers who stay. UTeach graduates stay in education for up to three times longer than teachers from other leading programs. They dedicate their lives to making math and science exciting for students.





UTeach



88%

Graduates entering teaching

87%

Graduates who teach for at least 4 years

23%

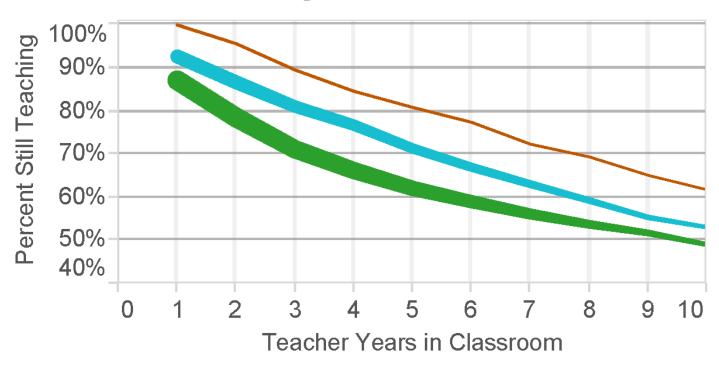
Graduates identified as underrepresented minorities

68%

Graduates currently teaching in K-12 schools with a majority economically disadvantaged population

UTeach Teachers Stay in the Classroom

Texas STEM Teachers



Population

STEM, Standard Program

UTeach Austin

STEM, Alternative Program

HBCUTeach: Leveraging Partnership

PHASE I: Capacity Building

Planning grants & proposal development

PHASE II: Establish Permanent STEM Teacher Pathways

- Deep and sustained partnership between UTeach Institute and HBCUs
- Student recruitment and support
- Clinically intensive pre-service teacher development specialized for STEM
- Built for long-term sustainability

Claflin University
Clark Atlanta University
Morgan State University
North Carolina A&T University
Prairie View A&M University

Spelman College Talladega College Tougaloo College Virginia State University Norfolk University



"The thing I am most passionate about when it comes to teaching is changing the way minorities are regarded in public education and creating equity.

As a minority in a leadership position, I hope I can encourage my students to pursue careers in STEM or STEM education."

Trey Fisher, Math Teacher Mendez Middle School Austin, Texas

DISCUSSION AND Q&A