"In-Demand" Careers

Preparing Today's High School Students for Tomorrow's Workforce

The Economic Future of the U.S. Depends on Navigating Two Waves of Change:



Skills In Demand

Job growth is concentrated in STEM and Healthcare, "In-Demand" sectors. Both fields share a foundation in science and math coursework.



By 2029, job growth is predicted to INCREASE...







The U.S. workforce is predicted to be "majority-minority"² by

in Healthcare, and

in **STEM**, but only

in **other** fields.¹

The emerging U.S. workforce³ (ages 18-29) is predicted to be "majority-minority" by

From the Bureau of Labor Statistics 2019-2029 data.

So the U.S. Economy Depends on Preparing All Students for In-Demand careers.

However, students from historically underrepresented groups (URGs) are less likely to aspire to In-Demand careers than **ORG peers.**

URGS (Underrepresented Groups) African Americans, Hispanics, and Native Americans

ORGs (Overrepresented Groups) Whites and Asians





Demographic Change

189

Filling In-Demand jobs will depend on being able to attract historically underrepresented groups to STEM and Healthcare.

...and the workforce will grow more **DIVERSE**.

2027

Why do these historical patterns persist?





STEM Encouragement

As STEM encouragement grows, aspirations for In-Demand careers increase. But some students have less encouragement than others.



Impact on Aspirations

Yet even when encouragement is equal and high, URGs are less likely to aspire to In-Demand careers.

A CLOSER LOOK

Students Scoring High on Sources of STEM Encouragement⁴ are More Likely to Aspire to In-Demand Careers



Are More Likely among Students with **Higher Parental STEM Capital** (a Parent with a STEM Degree/Job).

Encouragement of STEM Interest

Good News: For URGs and ORGs. Having Higher Parental STEM Capital Boosts STEM Encouragement







Structural inequalities create challenges for closing the gap in career aspirations of URG and ORG peers.



% of Students with Higher Parental STEM Capital





More Sources of STEM Encouragement are *Always* Better, But Even When All Things Seem Equal, the Impact is Not.





A CLOSER

LOOK





...But URG and ORG Aspirants are **Equally** Confident They Could Succeed in a STEM Career

% Completely Confident Could Succeed in a STEM Career

ORGs who **Aspire** to In-Demand Careers

URGs who **Aspire** to In-Demand Careers







Preventing or Mitigating the Gaps in Academic Vulnerabilities Is Important Because...

... URG Aspirants **Face Structural** Inequalities



- lower median household incomes
- · lower per pupil total current spending.
- higher percentage of families in poverty.

• greater rates of free/reduced lunch.

At the **Community Level**

Inequality in Available Resources at the School, District, and Community Levels May Depress the Aspiration Rates of Students in Underrepresented Groups.

As the Demographics of the U.S. Workforce Change, What Will Help All Students Be Ready and Eager to Fill the In-Demand Jobs of the Future?

Sources

See Bureau of Labor Statistics, Updated September 2020. BLS.gov/emp/tables/emp-by major-occupational-group; Bureau of Labor Statistics (BLS), US Department of Labor, The Bureau of Labor, Occupational Outlook Handbook (OOH), "BLS Occupational Employment Projections 2019-2029", Sept. 19, 2020, retrieved from:

https://www.bls.gov/news.release/ecopro.nr0.htm; Bureau of Labor Statistics (BLS), US Department of Labor, The Bureau of Labor, Employment Tables, "Table 1.11 Employment in STEM Occupations", 2019, retrieved from: https://www.bls.gov/emp/tables/stem-employment.htm ; Bureau of Labor Statistics (BLS), US Department of Labor, The

Bureau of Labor, Occupational Outlook Handbook (OOH), "Healthcare Occupations", 2019, retrieved from: https://www.bls.gov/ooh/healthcare/home.htm.

² https://www.cnn.com/2008/US/08/13/census.minorities/ The concept "Majority-Minority" is based on the proportion of non-Hispanic Whites in a specified group. For example, when less than 50% of the workforce is non-Hispanic Whites, the workforce is considered "Majority-Minority." For more information see https://en.wikipedia.org/wiki/Majority_minority_in_the_United_States

³ https://www.brookings.edu/blog/the-avenue/2018/03/14/the-us-will-become-minority-white-in2045-census-projects/ ⁴ This analysis includes the following self-reported sources by students as "Positive Influences on STEM Interest": Teachers, Parents, Other Adults, Friends, Pastimes, School Activities, Natural Talents, and Out-of-School Activities (OST). 0-1 sources are referred to as "Low" STEM Encouragement. 2-4 sources are referred to as "Medium" STEM Encouragement. 5 or more sources are referred to as "High" STEM Encouragement

classrooms nationwide during Fall 2018. Student percentages are based on replies of the 35,410 high school students who responded to the Student Survey. To learn more visit www.StudentResearchFoundation.org.

Research Consortium on Career Pathways & 21st Century Skills





Hispanic Heritage FOUNDATION

- fewer high school graduates.
- fewer adults with bachelor's degrees.
- underrepresentation of ORGs.

This infographic summarizes findings from the Career Interest Survey sponsored by the Research Consortium on Career Pathways and 21st Century Skills, and other sources as noted. The Student Research Foundation surveyed



