AMERICA'S ECONOMIC FUTURE

Gen Z Hispanics may be the key to success

NEEDED: *STEM PROFESSIONALS*

NOW

3 in 4 CEOs have trouble filling STEM positions

Source: http://fortune.com/2018/06/22/business-roundtable-jamie-dimon-worker-training/.

FUTURE

Demand will Grow

8.8%

between 2018 and 2028

Souce: https://www.bls.gov/emp/tables/stem-employment.htm.

Today's Students = Tomorrow's Workforce

Hispanics are **25%** of the **school-age** population, second only to **Whites**

Hispanics are **underrepresented** in **STEM**

17% of U.S. **workforce**
8% of **STEM workforce**

Source: de Brey, C., Musu, L., McFarland, J., Wilkinson-Flicker, S., Diliberti, M., Zhang, A., Branstetter, C., and Wang, X. (2019).
Source: See https://www.bls.gov/cps/cpsaat11.htm.

High School Students like STEM, regardless of race/ethnicity

Like STEM subjects

86% Hispanics
89% Whites/Asians

Aspire to STEM careers

47% Hispanics
50% Whites/Asians

Divergences could affect Hispanic retention in the STEM pipeline

STEM COURSES

Seniors with **7+** STEM courses

20% Hispanics
31% Whites/Asians

STEM CONFIDENCE

Students with **High** STEM confidence

26% Hispanics
31% Whites/Asians

GPA

STEM career aspirants: **"A" Students**

34% Hispanics
52% Whites/Asians

COLLEGE ASPIRATIONS

Aspire to attend **Community College**

26% Hispanics
14% Whites/Asians

HISPANIC FEMALES merit special attention

Hispanic **females** are **more likely** than Hispanic **males** to be "A" students. But Hispanic Females are

- **less likely** to have a favorite STEM subject
- **less likely** to aspire to a STEM career
- **less likely** to have high STEM confidence

Hispanic Females vs. **Hispanic Males**

	Hispanic Females		Hispanic Males
GPA: "A" Students	40%		29%
Have a favorite STEM subject	81%		91%
Aspire to STEM Career	28%		64%
High STEM confidence	22%		30%

This infographic summarizes findings presented in a report from the Hispanic Heritage Foundation and the Student Research Foundation -- *Hispanics and STEM: Hispanics are underrepresented in STEM today, but Gen Z's Hispanics could change that.* That report analyzes data from the Student Career Interest Survey sponsored by the Research Consortium on STEM Career Pathways. The Student Research Foundation distributed surveys to STEM teachers nationwide. 16,129 students responded to the survey. The results are a snapshot of students' interests and aspirations in the 2017-18 academic year. To learn more visit www.StudentResearchFoundation.org.

Sponsored by the **Research Consortium on STEM Career Pathways**

AAPT PHYSICS EDUCATION · Girls Collaborative Project · NAPE · DESTINATION IMAGINATION · Hispanic Heritage FOUNDATION · ERCA

STUDENT RESEARCH foundation

REFERENCES

http://fortune.com/2018/06/22/business-roundtable-jamie-dimon-worker-training/.

https://www.bls.gov/emp/tables/stem-employment.htm. This is dramatically higher than the 5% growth expected in non-STEM sectors.

de Brey, C., Musu, L., McFarland, J., Wilkinson-Flicker, S., Diliberti, M., Zhang, A., Branstetter, C., and Wang, X. (2019). Status and Trends in the Education of Racial and Ethnic Groups 2018 (NCES 2019-038). U.S. Department of Education. Washington, DC: National Center for Education Statistics. Retrieved October 10, 2019 from https://nces.ed.gov/ pubsearch/.

See https://www.bls.gov/cps/cpsaat11.htm. Statistics are based on aggregation of three summary categories in the Current Population Survey: computer and mathematical occupations, architecture and engineering occupations, and life, physical, and social science occupations. These categories provide a close approximation to categories classified by the Bureau of Labor Statistics as STEM occupations. The calculation includes social scientist (which is not defined as a STEM occupation by the BLS) and does not include managerial roles and postsecondary STEM teachers who are defined by BLS as STEM professionals.