



2022
GMIS
CONFERENCE

"Passion+Perseverance"



Great Minds in STEM Conference Report

October 5-8, 2022
Pasadena, California

www.gmisconference.org

2022 GMiS Conference
October 5 – 8, 2022
“Passion+Perseverance”
Conference Profile

GMiS is a nonprofit education organization focused on creating awareness, advocating career readiness, and celebrating success of world-class Hispanic STEM talent. The 2022 Great Minds in STEM (GMiS) Conference “*Passion+Perseverance*” was able to return to an in-person line-up of activities. Held during Hispanic Heritage month, GMiS successfully convened its strategic partners representing a cross section of leading industries, laboratories, government agencies and academic institutions from across the country in Pasadena, CA between October 5-8, 2022. The GMiS Conference convened eager STEM college students ready to participate and engage in the line-up of competitions, professional development sessions, networking, and the career fair activities.

As a precursor to the in-person activities, GMiS continued to conduct virtual STEM career coaching sessions in September. These events were accessible to both full conference students and those not yet able to travel. They served to provide insights, and guidance on how to pursue career-launching opportunities.

Highlights of this year’s GMiS Conference Included:

- The Class of 2022 GMiS Professional honorees is a stellar cohort of visionary, inspirational, and trailblazing STEM professionals from a broad range of the industries, academia, and our nation’s defense.
- Launched the inaugural GMiSTEM Zone Competition
- Hosted over 200 local middle and high school students and teachers in GMiS’ Viva Technology
- Conducted the three-day K-12 Educators Institute with Professional Development for local middle school and high school educators
- Awarded over \$230K in merit-based STEM Scholarships
- Re-launched the Senior Executive Session and engaged Subject-Matter Experts, who discussed the framework of policies and initiatives aimed at increasing the retention and graduation rates of underserved STEM students in a post-pandemic environment
- Once again convened in the strategic partnership with the Computing Alliance of Hispanic-Serving Institutions (CAHSI)

The engagement and access provided to the GMiS Conference attendees further strengthens the capacity of underserved students' STEM career pathways.

To learn more about how you can support GMiS in advocating for student success, please visit our website at www.greatmindsinstem.org or email info@greatmindsinstem.org.

We look forward to seeing you at our 35th Anniversary GMiS Conference from October 11-14, 2023, in Pasadena, CA.

Juan Rivera, Ph.D.
Acting CEO and Board Chairman

Bertha Haro, MPA
Executive Director

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Thank You to Our Sponsors

Host Sponsors



Academic Hosts



PRE-CONFERENCE ENGAGEMENT



STEM Career Readiness Coaching Sessions

Beginning September 1, 2022, GMIS hosted a series of small-group, focused webinars to prepare students for the conference. These 45-minute sessions provided career mobility strategies, resume reviews, interviewing strategies, curating online footprint, preparing for in-person networking, and how to create your personal brand.

human energy*

CAREER FAIR

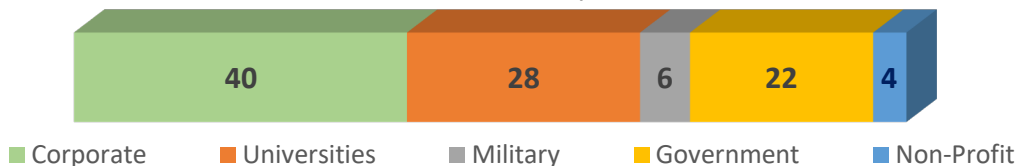
2,106
 Est. Unique
 Participants

64
 Entities Represented

160
 Interview Booths

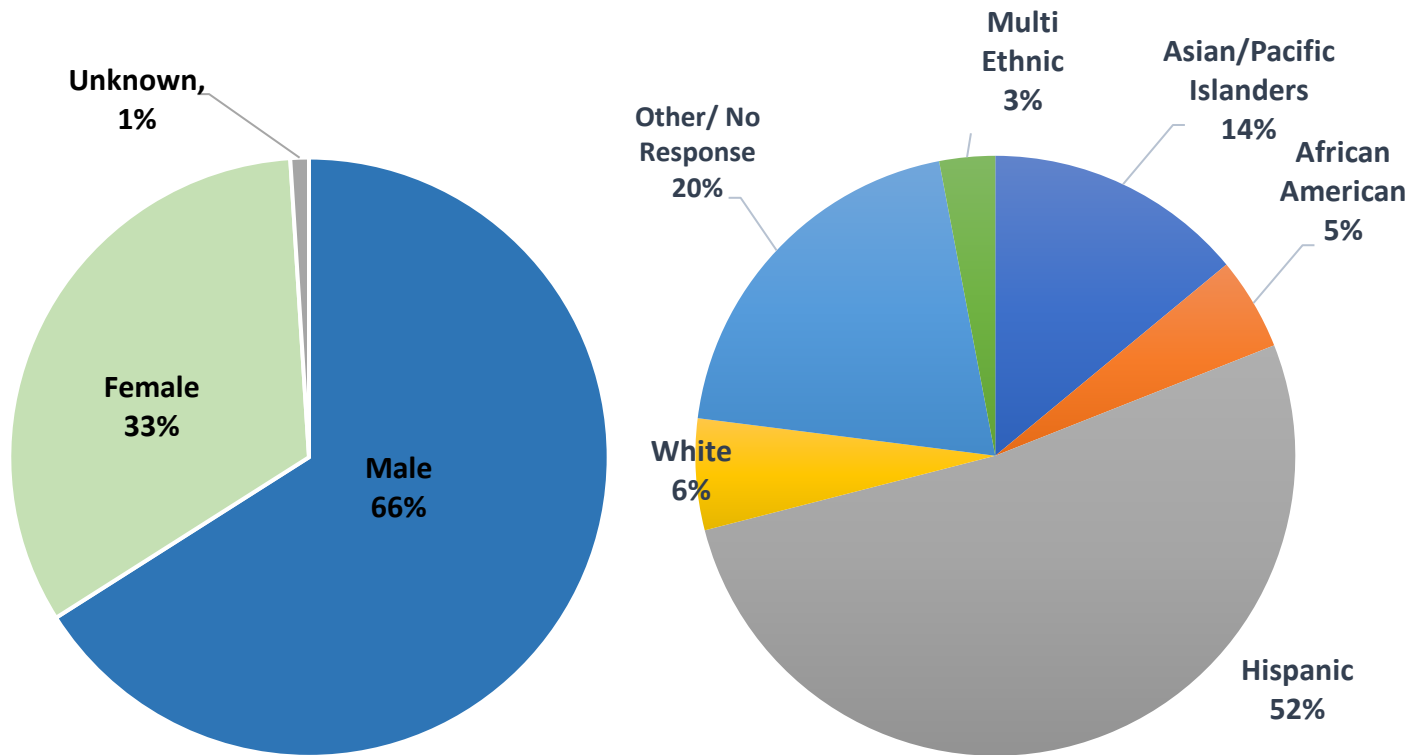
1:2
 Recruiter: Job
 Seeker Ratio

Percent Exhibitors by Sector

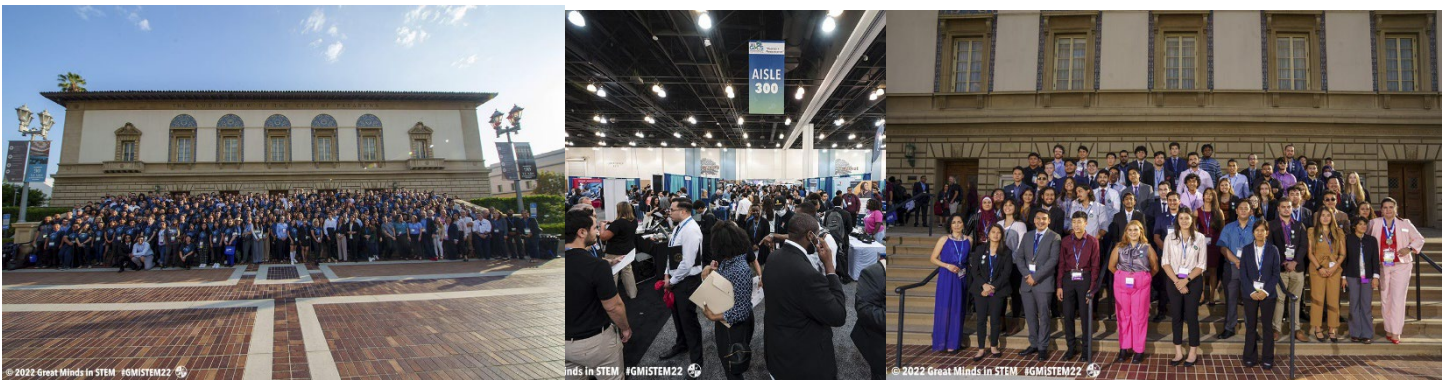
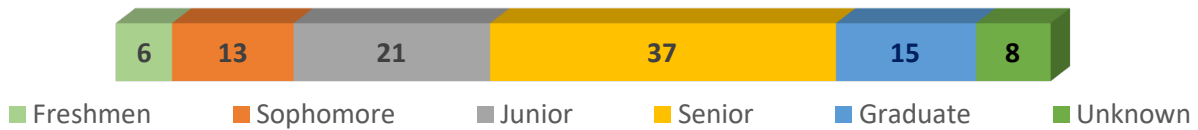


COLLEGE STUDENTS

*Based on registrant data

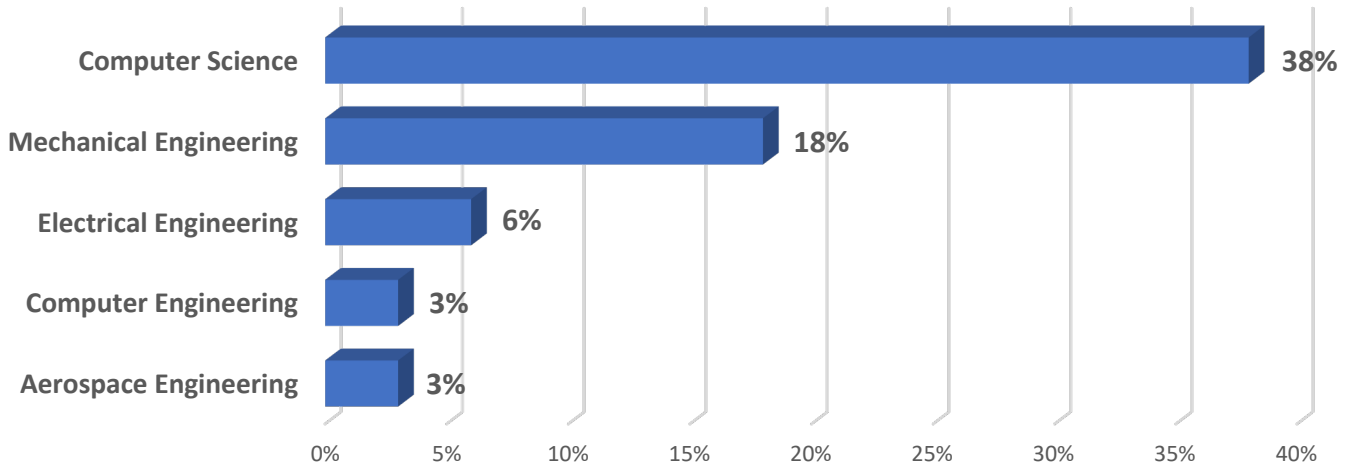


Percent Students by Classification



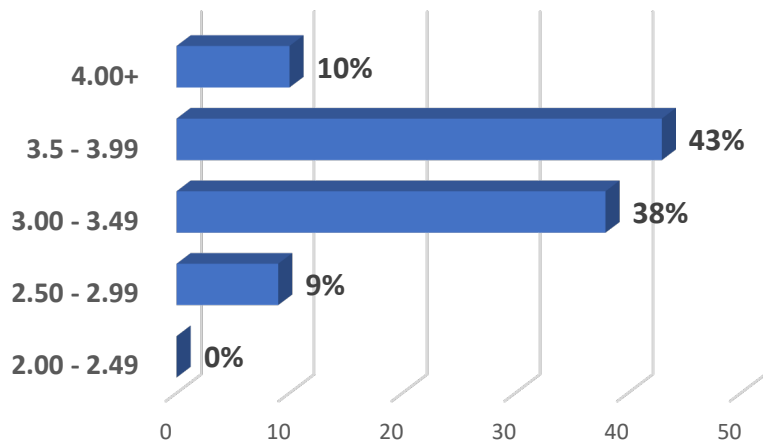
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Top 5 STEM Disciplines Represented



Percent Distribution of Self-Reported GPAs

Average GPA = 3.48



"All the advice gave me a sense of comfort and understanding on how to approach different things and to continue to learn about myself and understand what roads to take." – Student Participant

Student Attendance by Institutional Type



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135 Colleges and Universities Represented – Conference Wide

Abilene Christian University
Abraham Baldwin Agricultural College
Arizona State University
California Baptist University
California Polytechnic State University,
San Luis Obispo
California State Polytechnic University,
Pomona
California State University Foundation
California State University, Dominguez
Hills
California State University, Fresno
California State University, Fullerton
California State University, Long Beach
California State University, Los Angeles
California State University, Northridge
California State University, Office of the
Chancellor
California State University, Sacramento
California State University, San
Bernardino
California State University, San Marcos
California State University, Stanislaus
Canada College
Chandler Gilbert Community College
Coastline Community College
Colorado School of Mines
Colorado State University
Columbia University
Cornell University
Dartmouth College
Drexel University
Duke University
East Los Angeles College
Eastern Florida State College
El Camino College
El Paso Community College
Embry-Riddle Aeronautical University -
Daytona Beach
Fairleigh Dickinson University
Florida Gulf Coast University
Florida International University
Georgia Institute of Technology
Hampton University
Hillsborough Community College
Houston Community College System
Illinois Institute of Technology
Indiana University-Purdue University
Indianapolis
John Tyler Community College
Johns Hopkins University
Kean University
Lamar University
Laney College
Los Angeles Pierce College
Los Angeles Trade Technical College
Louisiana State University
Loyola Marymount University
Merced College
Mesa Community College
Mission college
Morgan State University
New Mexico Institute of Mining and
Technology
New Mexico State University
New York City College of Technology
New York Institute of Technology - Old
Westbury
New York University
Northeastern Illinois University
Oral Roberts University
Oregon State University
Pasadena City College
Pennsylvania State University
Purdue University
Rensselaer Polytechnic Institute
Rice University
Rider University
Rio Hondo College
Rutgers, The State University of New
Jersey
Sacramento City College
San Diego State University
San Francisco State University
Santa Ana College
Santa Monica College
Stanford University
Stevens Institute of Technology
SUNY at Buffalo
Texas A&M University
Texas A&M University - Corpus Christi
Tufts University
University of California David Geffen
School of Medicine
Universidad Interamericana de Puerto
Rico
University of Arizona
University of Arkansas at Little Rock
University of Arkansas, Fayetteville
University of California, Berkeley
University of California, Davis
University of California, Irvine
University of California, Los Angeles
University of California, Merced
University of California, Riverside
University of California, San Diego
University of California, Santa Barbara
University of California, Santa Cruz
University of Central Florida
University of Chicago
University of Colorado at Boulder
University of Florida
University of Houston
University of Houston-Downtown
University of Houston-Victoria
University of Illinois at Chicago
University of Illinois at Urbana-
Champaign
University of La Verne
University of Maryland - College Park
University of Mississippi
University of New Mexico
University of North Texas
University of Notre Dame
University of Oklahoma
University of Puerto Rico Arecibo
University of Puerto Rico at Mayaguez
University of Puerto Rico, Bayamon
University of Puerto Rico, Rio Piedras
University of Rochester
University of San Diego
University of South Florida
University of Southern California
University of Texas at Arlington
University of Texas at Austin
University of Texas at El Paso
University of Texas at San Antonio
University of Texas Rio Grande Valley
University of Virginia
University of Washington-Seattle
University of Wisconsin - Madison
Virginia Polytechnic Institute and State
University
Western Illinois University
Wheaton College
Woodbury University
Woodland Community College

COMPETITIONS

Research Poster Competition



57 Accepted Submissions
11 Competition Awards

CAHSI Hackathon



169 Participants
26 CAHSI Institutions

1st Overall - Novice: Cyber-Mineras
2nd Overall - Novice: CyberSlayers
3rd Overall - Novice: Good Question

1st Overall - Advanced: NMT 1
2nd Overall - Advanced:
Segmentation Fault
3rd Overall - Advanced: Hotdog

CAHSI Data Analytics



53 Participants
13 CAHSI Institutions

1st Place: Copybara
2nd Place: Red Coffee
3rd Place: Cat++



63 Participants 10 Teams

1st Place: Northrop Grumman
2nd Place: Sandia National Laboratories
3rd Place: U.S. Army Corps of Engineers



Over \$11,900 in competition awards

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GMiS STEM SCHOLARS

GMiS received over 650 completed applications for the GMiS STEM Scholarships, which offers both merit-based academic scholarships and STEM Civic Leadership Scholarships. This year, scholars were honored back in-person, at the HENAAC Honorees and GMiS Scholars Reception and the Student Leadership Awards Show.

By end of 2022, GMiS will have awarded over **\$5.5M** to more than **1,900** college students, since 2000.



HENAAC Outstanding Student Leadership Award Honorees

Graduate – Engineering (*Top-Left*)
 Ashleigh Herrera: Doctoral Candidate in Chemical Engineering at Tufts University

Graduate – Science (*Top-Right*)
 Juan De Los Rios: Doctoral Student in Chemistry at the University of Southern California

Undergraduate – Science (*Bottom-Left*)
 Xavier Amparo: Senior in Computer Science at Kean University

Undergraduate – Engineering (*Bottom-Right*)
 Andrea G. Rivera: Junior in Aerospace Engineering at Texas A&M University

Number of GMiS STEM Scholarships **112** **Total Awarded** **\$238,484**

Average GPA **3.62**

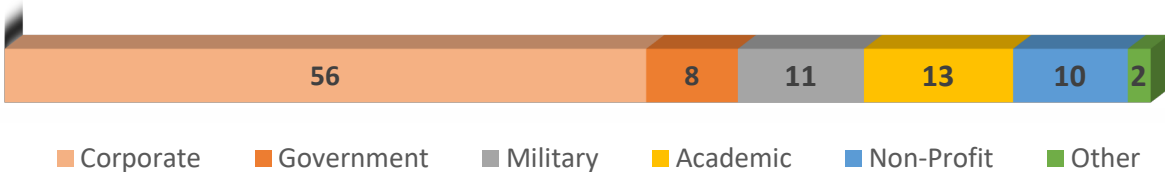
Classification **15%** Graduate Students **12%** Sophomores **Gender** **53%** Male
 32% Seniors **14%** Freshmen **47%** Female
 27% Juniors



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PROFESSIONALS

Percent Professional Participants By Sector (n=922)



2022 HENAAC Award Winners

2022 HENAAC Engineer of the Year



Fernando Signorini
 Vice President of Operations
 Dow U.S. Gulf Coast Site
 Director
 Dow Texas Operations
 Dow

2022 HENAAC Scientist of the Year



Kimberly R. Kukurba, Ph.D.
 Fellow & Lead, Applied
 AI/ML& Analytics Products
 Raytheon Missiles & Defense
 Raytheon Technologies

2022 Chairman’s Award



Diana Natalicio, Ph.D.
(Posthumous)
 President Emeritus
 University of Texas at El Paso
 1988 – 2019

Percent HENAAC Award Honorees By Sector (n=49)
 (45% Female)



23 HENAAC Award Honorees
9 STEM Heroes
14 Luminaries



greatmindsinstem.org/2022-henaac-award-winners/

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PRE-COLLEGE

GMiS hosted **194** pre-college students, teachers and administrators! **21** college students supported as GMiS College Captains.

Back in person since 2019, the Viva Technology Program was held at the conference for local middle school and high school students. Middle school students engaged Newton’s Law in building a dragster race car. High school students learned the fundamentals of electric circuits.

Additionally, 21 college students, from across the U.S. volunteered as GMiS College Captains, to mentor the pre-college students through their STEM activities.

VT - High School
Sponsor: **The Boeing Company**
No. of Students: **64**
No. of Schools: **2**
Marshall Fundamental Secondary School
Rose City High School

VT - Middle School
Sponsor: **Shell USA, Inc.**
No. of Students: **96**
No. of Schools: **1**
Griffith STEM Magnet Middle School






K-12 Educators
Sponsors: **Northrop Grumman Foundation**
No. of Educators: **34**
No. of Guest: **13**
Impact: The total students served by the Educators is **6,100.**

“In all honestly, I was a bit wary coming in the first day of the Educator’s Institute, but after the first session I was hooked, and I knew I made the right choice to come and participate.” – Educator



SOCIAL ENGAGEMENT

28,481 users engaged across various platforms during the conference resulting in a **5.2%** Engagement Rate from August 31 – October 20.

	438,221	23,004	28,481	14,662
	Impressions	Engagements	Audience	Video Views
 Great Minds in STEM	81,086	3,514	5,307	529
 @GreatMindsSTEM	25,080	1,171	16,303	420
 Great Minds in STEM (GMiS)	214,401	15,117	5,309	3,235
 greatmindsinstem	117,654	3,023	1,508	6,268
 Great Minds in STEM (GMiS)	N/A	179	54	4,210

On behalf of the entire GMiS Team, thank you for being back with us in-person at the 2022 GMiS Conference! Please continue to visit our GMiS Conference Website - www.gmisconference.org - to access the on-demand webinars, award shows, GMiS STEM Scholars, and Research Poster Exhibit Hall for the next several months.

SAVE THE DATES

35th Anniversary GMiS CONFERENCE

October 11 – 14, 2023

PASADENA, CA

GMiS STEM SCHOLARSHIPS DEADLINE – April 30, 2023

HENAAC AWARDS NOMINATION DEADLINE – May 26, 2023

Top Sponsors at the 2022 GMIS Conference



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