Great Minds in STEM Conference Report

October 5-8, 2022
Pasadena, California

www.gmisconference.org
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.  Bertha Haro, MPA
Acting CEO and Board Chairman  Executive Director
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.

CAREER FAIR

2,106
Est. Unique Participants

64
Entities Represented

160
Interview Booths

1:2
Recruiter: Job Seeker Ratio

Percent Exhibitors by Sector

<table>
<thead>
<tr>
<th>Sector</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corporate</td>
<td>40</td>
</tr>
<tr>
<td>Universities</td>
<td>28</td>
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<td>Military</td>
<td>6</td>
</tr>
<tr>
<td>Government</td>
<td>22</td>
</tr>
<tr>
<td>Non-Profit</td>
<td>4</td>
</tr>
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INFORMATION CURRENT AS OF 10/25/22
2022 GMiS Conference  
October 5 – 8, 2022  
“Passion+Perseverance”  
Conference Profile

"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

Top 5 STEM Disciplines Represented

- Computer Science: 38%
- Mechanical Engineering: 18%
- Electrical Engineering: 6%
- Computer Engineering: 3%
- Aerospace Engineering: 3%

Percent Distribution of Self-Reported GPAs

- Average GPA = 3.48

Student Attendance by Institutional Type

- 83% 4-Yr, Public
- 9% 4-Yr, Private
- 8% 2-Yr, Public
- 85% Hispanic-Serving Institutions

INFORMATION CURRENT AS OF 10/25/22

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2022 GMiS Conference
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Conference Profile

135 Colleges and Universities Represented – Conference Wide

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

INFORMATION CURRENT AS OF 10/25/22
**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: Capybara
2nd Place: Red Coffee
3rd Place: Cat++

This new competition placed students in mini-Integrated product teams to assess a real-life case study, determine the root cause of the problem in the case study, and determine a corrective action.

- **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**
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.

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

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<th>Percentage</th>
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<tr>
<td>Graduate Students</td>
<td>15%</td>
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<tr>
<td>Seniors</td>
<td>32%</td>
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<tr>
<td>Juniors</td>
<td>27%</td>
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<tr>
<td>Sophomores</td>
<td>12%</td>
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<tr>
<td>Freshmen</td>
<td>14%</td>
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<tr>
<td>Gender</td>
<td>53% Male</td>
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<tr>
<td>47% Female</td>
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By end of 2022, GMiS will have awarded over $5.5M to more than 1,900 college students, since 2000.
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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/
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.

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<tr>
<th>Platform</th>
<th>Impressions</th>
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<td>54</td>
<td>4,210</td>
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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
HENAAAC AWARDS NOMINATION DEADLINE – May 26, 2023
Top Sponsors at the 2022 GMiS Conference

[Logos of various sponsors, including Lockheed Martin, Shell, Boeing, Northrop Grumman, etc.]

www.gmisconference.org