Since 1989, Great Minds in STEM (GMiS) has contributed to the success of thousands of STEM professionals, college students, and K-12 educators, students, and parents, through its legacy HENAAC Conference, HENAAC Awards, HENAAC Scholars Program, and Viva Technology Program. GMiS thanks its sponsors and supporters, for believing in the mission and delivery of its programs and services to our underserved and underrepresented communities.

The 2018 HENAAC Conference, marked the 30th Anniversary for the organization and highlighted ongoing and new strategic initiatives and partnerships – such as the new Community College Initiative, inclusive of scholarships, mentoring and targeted seminars. Thank you to the conference host sponsors – Lockheed Martin Corporation, Shell Oil Company, The Boeing Company and the Northrop Grumman Corporation – and Academic Hosts and Partners – California State University System, University of Southern California, California Institute of Technology and Pasadena City College – for spearheading the convening of 3,400 individuals from all sectors of science, computing, engineering and math within academia, government, military and corporate America. As GMiS continues to expand its partnership with CAHSI – Computing Alliance of Hispanic-Serving Institutions, the CHCI - Congressional Hispanic Caucus Institute, and NOGLSTP - National Organization for Gay and Lesbian Science and Technical Professionals it remains focused on ensuring that STEM diversity remains at the forefront and in all aspects of economic prosperity for our nations underserved and underrepresented communities.

### Percent Total Conference Participants

- Pre-College Students, 12%
- Undergraduate Students, 48%
- K-20 Educators, 5%
- Graduate Students, 4%
- Professionals, 31%

### CAREER & GRADUATE SCHOOL FAIR

<table>
<thead>
<tr>
<th>Est. Number of Participants</th>
<th>2,994</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Entities Represented</td>
<td>87</td>
</tr>
</tbody>
</table>

### Percent Exhibitors By Sector

- Corporate: 30
- Universities: 27
- Military: 17
- Government: 16
- Non-Profit: 10

Information current as of 11/13/18
1,768 College Students

Profile of College Student Registrants

- **Female**: 31%
- **Male**: 69%

Distribution of Self-Reported GPAs

- 2.00 - 2.49: 3%
- 2.50 - 2.99: 17%
- 3.00 - 3.24: 22%
- 3.25 - 3.49: 17%
- 3.50 - 3.74: 19%
- 3.75+: 23%

Top STEM Disciplines Represented

- **Computer Science/Engineering**: 30%
- **Mechanical Engineering**: 28%
- **Electrical Engineering**: 8%
- **Aerospace Engineering**: 5%
- **Civil Engineering**: 4%
Student Attendance by Institutional Type

<table>
<thead>
<tr>
<th>72% 4-Yr, Public</th>
<th>9% 4-Yr, Private</th>
<th>19% 2-Yr, Public</th>
</tr>
</thead>
<tbody>
<tr>
<td>77% Hispanic-Serving Institutions</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

141 Colleges and Universities Represented – Conference Wide

- Argosy University
- Arizona State University
- Baruch College
- Binghamton University
- Boston University
- Brigham Young University
- Butte College
- California Institute of Technology
- California Lutheran University
- California State Polytechnic University, Pomona
- California State Polytechnic University, San Luis Obispo
- California State University Office of the Chancellor
- 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, Monterey Bay
- California State University, Northridge
- California State University, Sacramento
- California State University, Stanislaus
- Cañada College
- Case Western Reserve University
- College of the Canyons
- Colorado School of Mines
- Columbia University
- CSU Office of the Chancellor
- Cypress College
- East Los Angeles College
- Eastern Washington University
- El Paso Community College
- Embry-Riddle Aeronautical University
- Florida Gulf Coast University
- Florida Institute of Technology
- Florida International University
- Florida State University
- Georgia Institute of Technology
- Glendale Community College
- Harvard Business School
- Harvard University
- Illinois Institute of Technology
- Iowa State University
- Jackson State University
- Kean University
- Keck Graduate Institute of Applied Life Sciences
- Kent State University
- Lamar University
- Los Angeles Pierce College
- Louisiana State University
- Loyola Marymount University
- Loyola University - Chicago
- Massachusetts Institute of Technology
- Medgar Evers College
- Merced Community College
- Mission College
- Napa Valley College
- New Mexico Institute of Mining and Technology
- New Mexico State University
- New Mexico State University Office of the Chancellor
- New York City College of Technology
- Northeastern Illinois University
- NYU Tandon School of Engineering
- Oxnard College
- Pasadena City College
- Polytechnic University of Puerto Rico
- Pontificia Universidad Católica Madre y Maestra
- Portland State University
- Purdue University
- Rice University
- Rio Hondo College
- Rush University Medical Center
- Rutgers University
- San Diego State University
- San Francisco State University
- San Jose State University
- Santa Ana College
- Santa Barbara City College
- Skyline College
- Smith College
- Solano Community College
- Stanford University
- Stevens Institute of Technology
- Texas A&M University
- Texas A&M University - Corpus Christi
- Texas A&M University - Kingsville
- Texas A&M University - San Antonio
- Texas Southern University
- The College of New Jersey
- The Pennsylvania State University
- The University of Texas at Tyler
- Tulane University
- U.S. Coast Guard Academy
- U.S. Military Academy
- U.S. Naval Academy
- University of Alabama
- University of Alaska Fairbanks
- University of Arizona
- 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 Colorado Boulder
- University of Florida
- University of Hawaii at Manoa
- University of Houston
- University of Houston - Clear Lake
- University of Houston - Downtown
- University of Illinois at Chicago
- University of Illinois at Lafayette
- University of Michigan
- University of Nebraska – Lincoln
- University of Nevada, Reno
- University of New Mexico
- University of New Orleans
- University of Notre Dame
- University of Pennsylvania
- University of Puerto Rico
- University of Puerto Rico at Arecibo
- University of Puerto Rico at Mayaguez
- University of Puerto Rico at Rio Piedras
- University of Rochester
- University of South Florida
- University of Southern California
- University of Tennessee - Knoxville
- University of Texas at Arlington
- University of Texas at Austin
- University of Texas at Dallas
- University of Texas at El Paso
- University of Texas at San Antonio
- University of Texas Rio Grande Valley
- Utah State University
- Valencia College
- Ventura College
- Virginia Polytechnic Institute and State University
- West Texas A&M University
<table>
<thead>
<tr>
<th>COMPETITIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>HENAAC College Bowl</td>
</tr>
<tr>
<td>---------------------</td>
</tr>
<tr>
<td>Student Participants</td>
</tr>
<tr>
<td>Teams</td>
</tr>
<tr>
<td>Male</td>
</tr>
<tr>
<td>Female</td>
</tr>
<tr>
<td>Graduate Student</td>
</tr>
<tr>
<td>Senior</td>
</tr>
<tr>
<td>Junior</td>
</tr>
<tr>
<td>Sophomore</td>
</tr>
<tr>
<td>Freshmen</td>
</tr>
</tbody>
</table>

**HENAAC College Bowl™ XIX**

The 2018 HENAAC College Bowl™ was sponsored by NASA, for the 19th consecutive year. The competition theme was “Journey Into the Rain Forest.” The winning teams were U.S. Air Force (First Place), Northrop Grumman Alpha (Second Place), Lockheed Martin Space Mariachis (Third Place). The David Burris Tribute Award, a peer-selected award in recognition of a coach who shines as “best mentor” to the students, was presented to Eric Valentin of the Lockheed Martin Guardians team.

<table>
<thead>
<tr>
<th>Students Registered &amp; Waitlisted</th>
<th>Number of Coaches/Judges</th>
<th>No. of Student Awards</th>
<th>Special Recognition Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>316</td>
<td>72</td>
<td>36</td>
<td>8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>9th Annual Research Posters Competition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sponsors: The Boeing Company, Northrop Grumman Corporation, U.S. Air Force Research Laboratory, American Petroleum Institute, and Dow Chemical</td>
</tr>
<tr>
<td>No. of Submissions: 110</td>
</tr>
<tr>
<td>No. of Posters: 83</td>
</tr>
<tr>
<td>No. of Awards: 18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAHSI Hackathon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sponsors: Rockwell Collins, CIA, Lockheed Martin Corporation, and Leidos</td>
</tr>
<tr>
<td>Students Registered &amp; Waitlisted: 248</td>
</tr>
<tr>
<td>No. of Awards: 18</td>
</tr>
<tr>
<td>Winning Team(s): CSU-Dominguez Hills, New Mexico Institute of Mining and Technology, New Mexico State University, Polytechnic University, University of Puerto Rico at Mayaguez, and University of Texas at El Paso</td>
</tr>
</tbody>
</table>

**HENAAC SCHOLARS**

Over 1,600 applications were received for the HENAAC Scholars Program, which offers both merit-based academic scholarships and STEM Civic Leadership Scholarships. GMiS subsidizes over $800 in conference travel, lodging and registration per Scholar.

<table>
<thead>
<tr>
<th>Number of Scholarships</th>
<th>Gender</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Awarded</td>
<td>Male</td>
</tr>
<tr>
<td>Average GPA</td>
<td>Female</td>
</tr>
<tr>
<td>Classification</td>
<td></td>
</tr>
<tr>
<td>Graduates</td>
<td>20%</td>
</tr>
<tr>
<td>Seniors</td>
<td>16%</td>
</tr>
<tr>
<td>Sophomores</td>
<td>11%</td>
</tr>
<tr>
<td>Freshmen</td>
<td>15%</td>
</tr>
</tbody>
</table>

GMiS surpassed $4.2M in direct scholarship support to over 1,400 college students.
TRAVEL & REGISTRATION GRANTS

Nearly $164,000 was awarded in travel and registration grants to college students. Registration grants ranged from partial to full support.

<table>
<thead>
<tr>
<th></th>
<th>Registration Grants</th>
<th>Travel Grants</th>
</tr>
</thead>
<tbody>
<tr>
<td># Supported</td>
<td>$84,217.00</td>
<td>$79,772.67</td>
</tr>
<tr>
<td>Travel Grants</td>
<td></td>
<td></td>
</tr>
<tr>
<td># Supported</td>
<td>$79,772.67</td>
<td></td>
</tr>
<tr>
<td>Total Awarded</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

EARLY-CAREER FACULTY SYMPOSIUM

Through the National Science Foundation collaborative research project grant (EEC 1548322) - Collaborative Research: ASSIST: Strengthening Engineering Faculty through Diversity-Serving Professional Organization Engagement - GMiS hosted its third Early-Career Faculty Symposium. This four-year grant, along with the NSF INCLUDES design and development launch pilot (EEC 1649384) - LEVERAGE: Strengthening the ASSIST Collaborative to Illuminate Engineering Faculty Pathways - is intent on increasing faculty diversity in engineering.

PROFESSIONAL SUMMARY

The HENAAC Conference recruited an engaged group of 1,226 professionals, including 54 HENAAC Award winners. Dr. L. Rafael Reif, President, Massachusetts Institute of Technology was honored as the 2018 HENAAC Engineer of the Year. GMiS honored Dr Clarise Starr, Deputy Chief of Applied Technology & Genomics Division Aeromedical Research Department at the U.S. Air Force School of Aerospace Medicine from the U.S. Air Force Research Laboratory as the 2018 HENAAC Scientist of the Year.

GMiS awarded $808,629 in college student travel, registration, scholarships and awards!

Information current as of 11/13/18
PRE-COLLEGE PROGRAMS

GMiS hosted 452 pre-college students, teachers and administrators!

For the 7th year, a Viva Technology™ Program was held at the conference for local middle school and high school students.

VT - High School
Sponsor: Southern California Gas Company
No. of Students: 160
No. of Schools: 4
Cathedral High School
San Fernando High School
Sylmar Biotech Health Academy
Sylmar Charter High School

VT - Middle School
Sponsor: Shell Oil Company
No. of Students: 246
No. of Schools: 3
Elliot Middle School
Washington STEAM Magnet Academy
Wilson Middle School

K-12 Educators
Sponsors: Northrop Grumman Foundation; The Boeing Company
No. of Educators: 46

The K-12 Education Workshop was presented by nCASE.

SOCIAL MEDIA AND MOBILE APP

From October 18 – 21, 2018, GMiS monitored four of its social media platforms – Twitter, Facebook, SnapChat, and Instagram – to showcase the HENAAC Conference.

<table>
<thead>
<tr>
<th>Platform</th>
<th>Pre</th>
<th>Post</th>
<th>Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tweets</td>
<td>88</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Followers Pre</td>
<td>14,181</td>
<td>14,309</td>
<td></td>
</tr>
<tr>
<td>Followers Post</td>
<td>14,380</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Retweets</td>
<td>93</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Favorites</td>
<td>432</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Impressions</td>
<td>127,636</td>
<td>139,049</td>
<td>103,382</td>
</tr>
<tr>
<td>Total Reach</td>
<td></td>
<td>63</td>
<td></td>
</tr>
<tr>
<td>Posts Likes</td>
<td></td>
<td>4,556</td>
<td></td>
</tr>
<tr>
<td>Comments</td>
<td></td>
<td>246</td>
<td></td>
</tr>
<tr>
<td>Shares</td>
<td></td>
<td>333</td>
<td></td>
</tr>
<tr>
<td>Conference Pre Page Likes</td>
<td>3,957</td>
<td></td>
<td>3,957</td>
</tr>
<tr>
<td>Conference Post Page Likes</td>
<td>4,093</td>
<td></td>
<td>4,093</td>
</tr>
</tbody>
</table>

Average of 150 views per Instagram Stories. This is a new social media tool for 2018.

Mobile App
Users 1.17K
User Rate 52.8%
Navigation Taps 16.5K
Total Engagement 38.1K

SAVE THE DATES

2019 HENAAC CONFERENCE
September 25 – 29, 2019
Walt Disney World Resorts • Lake Buena Vista, FL

HENAAC SCHOLARSHIP DEADLINE – April 1, 2019
HENAAC AWARDS NOMINATION DEADLINE – May 1, 2019