We need influencers like you.
Join AAAS today.

Every important change begins with a reaction. We need educators like you to help us empower the next generation through STEM education for all. When you join AAAS, your membership helps us advocate for government funding of research, educate policymakers, and increase public awareness of the benefits of science. Get in on the reaction. Join AAAS today.

AAAS.ORG/JOINUS

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE
This material is based upon work supported by the National Science Foundation Grant Nos. HRD-1036084, HRD-1242666, and HRD-1930047.

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Program Book Editors: Iris R. Wagstaff, AAAS
Betty Calinger, AAAS

Program Book Cover Design: Office of Membership, AAAS

Program Book Design: Donna Behar, AAAS

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Overview of the Conference

Emerging Researchers National (ERN) Conference in STEM

The 2020 Emerging Researchers National (ERN) Conference in Science, Technology, Engineering and Mathematics (STEM) is hosted by the American Association for the Advancement of Science (AAAS), Diversity, Equity and Inclusion (DEI) Programs and the National Science Foundation (NSF) Division of Human Resource Development (HRD), within the Directorate for Education and Human Resources (EHR). The conference is aimed at college and university undergraduate and graduate students who participate in programs funded by the NSF HRD Unit, including underrepresented minorities and persons with disabilities.

In particular, the conference seeks to highlight the research of undergraduate and graduate students who participate in the NSF Research Experiences for Undergraduates (REUs) Program and the following NSF HRD-funded programs:

- Alliance for Graduate Education and the Professoriate (AGEP);
- Centers of Research Excellence in Science and Technology (CREST);
- Emerging Frontiers in Research and Innovation (EFRI-REM) Scholars;
- EntryPoint;
- Historically Black Colleges and Universities Undergraduate Program (HBCU-UP);
- Louis Stokes Alliances for Minority Participation (LSAMP) and LSAMP Bridges to the Doctorate;
- National Society of Black Physicists (NSBP) Scholars;
- Research in Disabilities Education (RDE); and
- Tribal Colleges and Universities Program (TCUP).

The objectives of the conference are to help undergraduate and graduate students to enhance their science communication skills and to better understand how to prepare for science careers in a global workforce. Towards this end, the general format for the 2-1/2 day conference includes:

- Student poster and oral presentations.

Other conference activities include workshops focused on:

- Strategies for applying for and succeeding in graduate programs and finding funding for graduate school;
- Career preparation for the STEM workforce, including employment searches and retention; and
- Understanding STEM careers in a global context and identifying international research and education opportunities for undergraduate and graduate students and faculty.

Exhibitors include representatives from academic, government, business, and the non-profit sector with information about graduate school admissions, fellowships, summer research opportunities, professional development activities, and employment opportunities.

For more information, visit the website at http://www.emerging-researchers.org/.
The National Science Foundation (NSF) Division of Human Resource Development (HRD)

The Division of Human Resource Development (HRD) serves as a focal point for NSF’s agency-wide commitment to enhancing the quality and excellence of STEM education and research through broadening participation by historically underrepresented groups - minorities, women, and persons with disabilities. Priority is placed on investments that promise innovation and transformative strategies and that focus on creating and testing models that ensure the full participation of and provide opportunities for the educators, researchers, and institutions dedicated to serving these populations. Programs within HRD have a strong focus on partnerships and collaborations in order to maximize the preparation of a well-trained scientific and instructional workforce for the new millennium.

HRD Vision:

HRD envisions a well-prepared and competitive U.S. workforce of scientists, technologists, engineers, mathematicians, and educators that reflects the diversity of the U.S. population.

HRD Mission:

HRD’s mission is to grow the innovative and competitive U.S. science, technology, engineering and mathematics (STEM) workforce that is vital for sustaining and advancing the Nation’s prosperity by supporting the broader participation and success of individuals currently underrepresented in STEM and the institutions that serve them.
About

American Association for the Advancement of Science (AAAS)

The American Association for the Advancement of Science is an international non-profit organization dedicated to advancing science around the world by serving as an educator, leader, spokesperson, and professional association. In addition to organizing membership activities, AAAS publishes the journal Science, http://www.sciencemag.org/, and the Science family of journals, as well as many scientific newsletters, books and reports, and spearheads programs that raise the bar of understanding for science worldwide.

AAAS was founded in 1848 and includes some 264 affiliated societies and academies of science, serving 10 million individuals. Science has the largest paid circulation of any peer-reviewed general science journal in the world, with an estimated total readership of one million. The non-profit AAAS is open to all and fulfills its mission to “advance science and serve society” through initiatives in science policy; international programs; science education and more. For the latest research news, log onto EurekAlert!, http://www.eurekalert.org/, the premier science-news website, a service of AAAS.

Membership and Programs

Open to all, AAAS membership includes a subscription to Science. AAAS fulfills its mission to advance science and serve society through initiatives in science policy, diplomacy, education, career support, public engagement with science, and more.

AAAS Mission

AAAS seeks to “advance science, engineering, and innovation throughout the world for the benefit of all people.” To fulfill this mission, the AAAS Board has set these broad goals:

- Enhance communication among scientists, engineers, and the public;
- Promote and defend the integrity of science and its use;
- Strengthen support for the science and technology enterprise;
- Provide a voice for science on societal issues;
- Promote the responsible use of science in public policy;
- Strengthen and diversify the science and technology workforce;
- Foster education in science and technology for everyone;
- Increase public engagement with science and technology; and
- Advance international cooperation in science.

Visit the AAAS website at https://www.aaas.org/
Professional STEM Societies Working Group

This year we are partnering and collaborating with professional STEM societies from around the country and across disciplines to convene our inaugural Professional STEM Societies Working Group at the 2020 ERN Conference. The goals and objectives of the Working Group are:

1) Introduce AAAS, the ERN Conference, and the Preparing Diverse Researchers to Address Global Challenges Initiative to your organizations;
2) Introduce the organizations to the ERN community;
3) Share resources, best practices and strategies to support undergraduate and graduate STEM majors in their educational and career goals in academia, industry, and government;
4) Identify gaps and levers for change in the support and preparation of a diverse and inclusive STEM workforce; and
5) Identify common challenges and barriers across disciplines.

Professional Societies and Associations participating this year include:

- American Association for the Advancement of Science (AAAS)
- American Chemical Society (ACS)
- American Institute of Chemical Engineers (AIChE)
- American Institute of Physics (AIP)
- American Society for Microbiology (ASM)
- American Society for Pharmacology and Experimental Therapeutics (ASPET)
- AnitaB.org
- Association of Women in Forensic Science (AWIFS)
- Association of Women in Science (AWIS)
- BlackcomputeHER
- Coalition of Hispanic, African and Native Americans for the Next Generation of Engineers and Sciences (CHANGES)
- Mexican American Engineering Society (MAES)
- National Association of Mathematics (NAM)
- National Action Council for Minorities in Engineering (NACME)
- National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBChE)
- National Society of Black Engineers (NSBE)
- National Society of Black Engineers (NSBE) DC Chapter
- National Society of Black Physicists (NSBP)
- Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)
- Society of Women Engineers (SWE)

Students in STEM with Disabilities Working Group

This year we are also partnering and collaborating with students, faculty, and program directors from around the country to convene our inaugural Students in STEM with Disabilities Working Group. The goals and objectives of this Working Group is to work in collaboration to discuss new areas of research, share best practices, and create new resources to support, encourage, and engage students who are “differently abled”.

New Collaborations
Welcome

December 16, 2019

Dear Conference Participants:

On behalf of the National Science Foundation’s Directorate for Education and Human Resources, it is my great pleasure to welcome you to the 2020 Emerging Researchers National (ERN) Conference in STEM. This year we are celebrating 10 years of the ERN Conference! This research conference for undergraduate and graduate students builds on and continues NSF’s commitment to broaden participation in STEM fields to foster the research and education capacity of the nation.

It is an exciting time for the ERN Community, as you explore innovative ways to collaborate and ensure that all members of our society are provided with opportunities to engage in and pursue STEM. We join you in your efforts to prepare diverse researchers to address global challenges. The ERN Conference is a multi-disciplinary platform that exposes participants to the breadth and depth of STEM research being conducted around the country and to the various career trajectories possible.

The mission of EHR is to provide the research foundation to develop a STEM-literate public and diverse workforce that is ready to advance the frontiers of science and engineering for society. At NSF, we recognize that supporting student research, development of science communication skills, and affirmation within STEM fields is critical to developing the next generation of STEM professionals.

I hope that you find the plenary sessions, panel discussions, workshops, and poster sessions informative and valuable at what will undoubtedly be a productive and rewarding meeting.

Sincerely,

Karen Marrongelle
Assistant Director

2415 Eisenhower Avenue | Alexandria, VA 22314
Dear ERN Conference Participants:

Welcome to the 2020 Emerging Researchers National (ERN) Conference in Science, Technology, Engineering and Mathematics (STEM). This year we are celebrating 10 years of the ERN conference hosted by AAAS, the publisher of the Science family of journals, and supported by the National Science Foundation (NSF). We welcome this collaboration with NSF and applaud the Foundation’s continuing commitment to develop STEM talent from all sectors and groups in our society and to support strategies to reach underserved populations nationwide.

The theme of this year’s conference is Preparing Diverse Researchers to Address Global Challenges as we reflect on the impact of the ERN Conference over the last nine years and look forward to the future.

This year we have more than 1,300 participants from more than 260 institutions. Nearly 70% of the conference participants are undergraduate and graduate student researchers who are supported by the NSF Human Resources Development (HRD) Programs; Research Experiences for Undergraduates (REU); the Directorate for Engineering (ENG), Office of Emerging Frontiers in Research and Innovation (EFRI) Research Experience and Mentoring (REM) Program; and other federal programs.

Plenary sessions will include two panels. One highlights selected ERN alumni who have excelled in the STEM world and the other highlights STEM professionals who are leveraging STEM to address social justice issues.

Our two keynote plenary speakers Crystal Emery (Founder and CEO, URU The Right To Be Inc and AAAS IF/THEN Ambassador) and John Urschel (PhD Candidate, Department of Mathematics, MIT) will discuss their STEM research and education, career paths and outreach activities.

This year we are convening two inaugural Working Groups. The Professional STEM Societies Working Group will engage societies and associations across STEM fields in collaboration to share and leverage best practices to support student degree completion, workforce readiness, and early career professionals. The Students in STEM with Disabilities Working Group will engage students, faculty, and program directors from across the country to share best practices, identify new areas for research and create new resources to support students with disabilities.

This is the third year that ERN has included the HBCU Making & Innovation Showcase to encourage and support increased participation in STEM-related innovation and entrepreneurship activities by students at HBCUs. Student teams from HBCUs will share innovative prototypes that address one of the 17 United Nations Sustainable Development Goals and present their work during the ERN conference to a team of inventors.

We also have several new workshops and sessions focused on data science, entrepreneurship, mentoring, fellowship, postdoctoral and training opportunities, federal science agency opportunities, international student research experiences, and faculty-focused sessions.

Finally, as part of our 10th year celebration of the ERN Conference, we will preview reflection videos and memoirs over the last nine years from participants that include students, faculty, and staff who will share their perspectives on the impact and benefit the ERN Conference has provided in cultivating the next generation of diverse STEM talent to address global challenges.

We appreciate the continued support and efforts of exhibitors from academia, industry and the federal government, many of whom are NSF grantees.

We are most appreciative of the STEM professionals who serve as role models and mentors and help with the judging of student oral and poster presentations, including alumni of the David and Lucille Packard HBCU Graduate Scholars Program, L’Oréal USA For Women in Science (FWIS) post-doctoral fellowship program, the AAAS Science and Technology Policy Fellows, and the SACNAS Summer Leadership Institute.

We encourage all students to make new contacts, build scientific communications skills, and attend the workshops to build knowledge about graduate school and careers.

As a professional society, AAAS is working to advance science, engineering, and innovation throughout the world for the benefit of all people. We encourage all participants to visit aaas.org to find out about our grants and awards, professional development opportunities, and our Force for Science effort. It is our hope that you will expand your STEM workforce knowledge at this Conference.

Sincerely,

Shirley M. Malcom, Senior Advisor, and Director of SEA Change, AAAS
Iris R. Wagstaff, ERN Conference Lead and NSF PI, STEM Program Director, AAAS
Neela White, Project Director, AAAS
Conference Staff

NSF and AAAS Staff

NSF Directorate for Education and Human Resources (EHR) and Division of Human Resources Development (HRD) Senior Managers
Karen Marrongelle, Assistant Director EHR
Sylvia M. James, Deputy Assistant Director EHR
Diana Elder, Division Director HRD
Jermeлина Tupas, Deputy Division Director HRD

HRD Program Directors
Erika Camacho, ADVANCE, HSI
Jody Chase, TCUP
Michelle Claville, HBCU-UP, LSAMP
Jessie DeAro, ADVANCE, ECR
Earnestine Easter, HBCU-UP, ECR
A. James Hicks, LSAMP
Martha James, INCLUDES, LSAMP
Mark H. Leddy, ECR, AGEP
Robert Mayes, EASE, HSI
Nafeesa Owens, EASE
Claudia Rankins, HBCU-UP, CAREER
Sandra Romano, AGEP, LSAMP
Victor Santiago, CREST, HBCU-UP
Regina Sievert, TCUP, CREST
Marilyn J. Suiter, TCUP, HBCU-UP
Emanuel Waddell, CREST, HBCU-UP

AAAS Diversity, Equity & Inclusion (DEI)
Shirley M. Malcom, Senior Advisor, and Director of SEA Change
Janaya Thompson, Director, Interim Director, DEI
Iris R. Wagstaff, Program Director
Neela White, Project Director

AAAS
Donna Behar
Betty Calinger
Jennifer Carinci
Tarrick Clayton
Marty Clock
Allison Gonzalez
Laureen Summers
Janaya Thompson

AAAS Departments
Diversity, Equity, and Inclusion Programs
Office of Meetings and Special Events
Office of Membership
Office of Public Programs
STEM Education Research Programs

Pongos Interactive
Chrissy Rey
Dawn Smith

Colella Digital
Michael Colella
Shane Colella

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Delia Rosales-Valles, New Mexico State University
Carmen K. Sidbury, The Sidbury Group, LLC
Gregory Triplett, Virginia Commonwealth University
Zakiya Wilson-Kennedy, LSU

Chief Poster and Oral Presentation Judge
Johnathan Lambright, Savannah State University

Assistant Judge
Patrick Dean, Savannah State University
<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>3:00pm - 9:00pm</td>
<td>Conference Registration Check-in Opens</td>
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<tr>
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<td>Convention Registration and Lobby</td>
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<tr>
<td>1:00pm - 7:00pm</td>
<td>Exhibitor Setup</td>
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<td>Exhibit Hall A</td>
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<tr>
<td>4:00pm - 5:00pm</td>
<td>Student Resume Prep Workshop</td>
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<td>(mandatory for early arrivals) Washington Rooms 1 and 2</td>
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<tr>
<td>5:15pm - 5:45pm</td>
<td>Student Orientation</td>
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<td></td>
<td>(mandatory for early arrivals) Washington Room 3</td>
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<tr>
<td>4:30pm - 5:45pm</td>
<td>Judges’ Orientation</td>
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<td>Maryland A&amp;B</td>
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<td>5:00pm - 6:00pm</td>
<td>ADA Resource Room Opens</td>
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<td>Maryland A&amp;B</td>
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<tr>
<td>5:00pm - 5:45pm</td>
<td>HBCU Making &amp; Innovation Showcase Orientation Session</td>
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<td>Virginia A</td>
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<tr>
<td>6:00pm - 8:00pm</td>
<td>Opening Plenary Session 1 and Dinner</td>
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<td>Marriott Ballroom</td>
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<td></td>
<td>Moderator: Shirley M. Malcom, Senior Advisor, and Director of SEA Change, AAAS</td>
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<td>NSF Welcome Remarks:</td>
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<tr>
<td></td>
<td>Sylvia James, Deputy Assistant Director, Directorate for Education and Human Resources (EHR), NSF</td>
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<td>AAAS Welcome Remarks:</td>
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<td>Sudip Parikh, CEO and Executive Publisher, Science Magazine, American Association for the Advancement of Science (AAAS)</td>
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<td></td>
<td>Neela White, AAAS Project Director, HBCU Making &amp; Innovation Showcase</td>
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<td></td>
<td>ERN Alumni Panel and Q&amp;A</td>
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<td></td>
<td>Panel Introduction:</td>
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<td>Claudia Rankins, Program Director, NSF, EHR</td>
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<tr>
<td>8:00pm - 10:00pm</td>
<td>Exhibit Hall Opens - Session 1</td>
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<td>Exhibit Hall A</td>
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**Friday, February 7, 2020**

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<th>Time</th>
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<tr>
<td>7:00am - 6:30pm</td>
<td>Registration Check-in</td>
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<td>Convention Registration and Lobby</td>
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<td>Judges’ Room and ADA Resource Room Opens</td>
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<td>Maryland A&amp;B</td>
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<tr>
<td>7:00am - 7:45am</td>
<td>Oral Presentations Session 1 (Setup)</td>
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<td>(See handout for room assignments.)</td>
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<td>Poster Presentations Session 1 (Setup)</td>
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<td>Exhibit Hall A</td>
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**Moderator:**
Kelly Mack, VP, Undergraduate STEM Education, Association of American Colleges and Universities and Executive Director, Project Kaleidoscope

**Panelists:**
Wesley Cuadrado-Castillo, PhD Candidate, University of Florida
Monica Golgi, PhD Candidate, University of Illinois at Urbana-Champaign
Jonathan Jones, Engineer, Corteva Agriscience
Alexandria Stewart, Undergraduate, University of Texas at San Antonio
Safira Sutton, PhD Candidate, University of Georgia, Athens

**ERN Agenda Review and Announcements:**
Iris R. Wagstaff, ERN Conference Lead & NSF PI, STEM Program Director, Diversity, Equity and Inclusion (DEI), AAAS
### Agenda

| 8:00am - 9:45am | Networking Breakfast and Plenary  
Session 2  
Marriott Ballroom  
Panel on STEM for Social Justice  
AAAS Welcome Remarks:  
Maureen Kearney, Chief Program Officer, AAAS  
Moderator:  
Camille McKayle, Provost and Vice President for Academic Affairs, University of the Virgin Islands, St. Thomas and St. Croix  
Panelists:  
Davina Durgana, AAAS IF/THEN Ambassador & Adjunct Instructor School of International Service, American University  
Huda Elasaad, AAAS Lemelson Invention Ambassador & CTO of PV Pure  
Sacoby Wilson, Associate Professor, Maryland Institute for Applied Environmental Health and Department of Epidemiology and Biostatistics, School of Public Health, University of Maryland-College Park  
Q&A  
Announcements:  
Iris R. Wagstaff, ERN Conference Lead & NSF PI, STEM Program Director, Diversity, Equity and Inclusion (DEI), AAAS | These Include:  
Biological Sciences (Graduate Students)  
Virginia B  
Biological Sciences (Undergraduate Students)  
Harding  
Chemistry & Chemical Sciences (Graduate Students)  
Coolidge  
Ecology, Environmental, & Earth Sciences (Undergraduate Students)  
Hoover  
Mathematics & Statistics (Undergraduate Students)  
Tyler  
Nanoscience (Graduate Students)  
McKinley  
Social, Behavioral, & Economic Sciences and Science/Math Education (Undergraduate Students)  
Park Tower 8216  
Technology & Engineering (Graduate Students)  
Marriott Balcony B  
Technology & Engineering (Undergraduate Students)  
Marriott Balcony A |
| 9:45am - 10:00am | Break | 10:00am - 12:00pm  
Concurrent Workshops - Session 1  
A. Professional STEM Societies Showcase  
Washington Room 1  
B. Funding Your STEM Education: For Undergraduate & Graduate Students  
Maryland C  
Bernard Batson, Director, Diversity Programs, University of South Florida  
Sara Hernandez, Associate Dean for Inclusion & Student Engagement, Cornell University  
Yolanda Trevino, Assistant Vice President for Diversity, Equity, & Culticultural Affairs, Indiana University |
| 10:00am - 12:00pm | Book Signing with John Urschel  
Washington Room 3  
HBCU Making & Innovation Showcase  
The Power of Teams: From Invention to Entrepreneurship  
(Maker Showcase Students & Faculty only)  
Wilson A,B,C |  
Poster Presentations Session 1  
Exhibit Hall A  
Oral Presentations Session 1  
(See handout for room assignments) |
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>11:00am - 12:00pm</td>
<td>C. Student Mentorship Training Through the National Research Mentoring Network (NRMN)</td>
<td>Park Tower Suite 8212</td>
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<td></td>
<td>Jamboor K. Vishwanatha, Regents Professor and Vice President and Founding Director, Texas Center for Health Disparities, NRMN</td>
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<td>Damaris Javier, Associate Director, NRMN, University of North Texas Science Center</td>
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<td>12:15pm - 1:30pm</td>
<td>Plenary Session 3 and Lunch</td>
<td>Marriott Ballroom</td>
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<td>Moderator: Shirley M. Malcom, Senior Advisor, and Director of SEA Change, AAAS</td>
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<td>Speaker: Crystal Emery, Founder &amp; CEO, URU The Right To Be, Inc. and AAAS IF/THEN Ambassador</td>
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<td></td>
<td>Q&amp;A</td>
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<td>1:45pm - 3:30pm</td>
<td>HBCU Making &amp; Innovation Showcase</td>
<td>Wilson A,B,C</td>
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<td></td>
<td>A. The Ins and Outs of Technology Transfer (Open to all ERN and Maker Faculty)</td>
<td>Washington 2</td>
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<td></td>
<td>B. Understanding the Business of Entrepreneurship (Open to all ERN and Maker Students)</td>
<td>Washington Room 3</td>
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<tr>
<td>1:30pm - 4:00pm</td>
<td>Exhibit Hall Opens - Session 2</td>
<td>Exhibit Hall A</td>
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<tr>
<td>1:45pm - 4:00pm</td>
<td>Poster Presentations Session 2 (Setup)</td>
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<td>Oral Presentations Session 2 (Setup) (See handout for room assignments.)</td>
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<tr>
<td>4:00pm - 6:00pm</td>
<td>HBCU Making &amp; Innovation Showcase Protecting Your Intellectual Property (Maker Showcase Students Only)</td>
<td>Wilson A,B,C</td>
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<td></td>
<td>G. Entrepreneurship in STEM</td>
<td>Park Tower Suite 8209</td>
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<tr>
<td></td>
<td>Nehemiah Mabry, President &amp; Founder, STEMedia</td>
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<td>Justin Shaifer, Executive Director, Fascinate Inc.</td>
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<td></td>
<td>HBCU Making &amp; Innovation Showcase Career Pathways (Maker Showcase Students and Faculty only)</td>
<td>Wilson A,B,C</td>
</tr>
<tr>
<td></td>
<td>A. The Ins and Outs of Technology Transfer (Open to all ERN and Maker Faculty)</td>
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<td>E. Fellowships/Postdoc/Training Opportunities Panel</td>
<td>Virginia C</td>
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<td>National Institute of Justice (NIJ) STEM Doctoral Fellowships GEM Fellowships</td>
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<td>Department of Energy (DOE) National Institute of Standards and Technology (NIST)</td>
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<td>F. Data Science Townhall</td>
<td>Park Tower Suite 8212</td>
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<td></td>
<td>Renata Rawlings-Goss, Executive Director, South Big Data Innovation Hub</td>
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<td></td>
<td>Frances Carter-Johnson, Education Data Scientist, NSF</td>
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<td>G. Entrepreneurship in STEM</td>
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<td>C. Student Mentorship Training Through the National Research Mentoring Network (NRMN)</td>
<td>Park Tower Suite 8212</td>
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<td>Jamboor K. Vishwanatha, Regents Professor and Vice President and Founding Director, Texas Center for Health Disparities, NRMN</td>
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<td>Damaris Javier, Associate Director, NRMN, University of North Texas Science Center</td>
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<td>E. Fellowships/Postdoc/Training Opportunities Panel</td>
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<td>National Institute of Justice (NIJ) STEM Doctoral Fellowships GEM Fellowships</td>
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<td>Department of Energy (DOE) National Institute of Standards and Technology (NIST)</td>
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<td>F. Data Science Townhall</td>
<td>Park Tower Suite 8212</td>
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<td></td>
<td>Renata Rawlings-Goss, Executive Director, South Big Data Innovation Hub</td>
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<td></td>
<td>Frances Carter-Johnson, Education Data Scientist, NSF</td>
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<td>G. Entrepreneurship in STEM</td>
<td>Park Tower Suite 8209</td>
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<td></td>
<td>Nehemiah Mabry, President &amp; Founder, STEMedia</td>
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<td>Justin Shaifer, Executive Director, Fascinate Inc.</td>
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<td></td>
<td>HBCU Making &amp; Innovation Showcase Career Pathways (Maker Showcase Students and Faculty only)</td>
<td>Wilson A,B,C</td>
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<tr>
<td></td>
<td>A. The Ins and Outs of Technology Transfer (Open to all ERN and Maker Faculty)</td>
<td>Washington 2</td>
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<td>B. Understanding the Business of Entrepreneurship (Open to all ERN and Maker Students)</td>
<td>Washington Room 3</td>
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<tr>
<td>1:45pm - 3:30pm</td>
<td>HBCU Making &amp; Innovation Showcase</td>
<td>Wilson A,B,C</td>
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<td>A. The Ins and Outs of Technology Transfer (Open to all ERN and Maker Faculty)</td>
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<tr>
<td>1:30pm - 4:00pm</td>
<td>Exhibit Hall Opens - Session 2</td>
<td>Exhibit Hall A</td>
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<tr>
<td>1:45pm - 4:00pm</td>
<td>Poster Presentations Session 2 (Setup)</td>
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<td>Oral Presentations Session 2 (Setup) (See handout for room assignments.)</td>
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<tr>
<td>4:00pm - 6:00pm</td>
<td>HBCU Making &amp; Innovation Showcase Protecting Your Intellectual Property (Maker Showcase Students Only)</td>
<td>Wilson A,B,C</td>
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## Agenda

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<tr>
<th>Time</th>
<th>Event</th>
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<th>Speakers/Details</th>
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<tr>
<td>4:00pm - 6:00pm</td>
<td>Professional STEM Societies Showcase</td>
<td>Washington Room 1</td>
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<td>4:00pm - 6:30pm</td>
<td>Poster Presentations Session 2</td>
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<td>Oral Presentations Session 2</td>
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<td>(See handout for room assignments.)</td>
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<td>4:00pm - 6:00pm</td>
<td>These Include: Biological Sciences (Graduate Students)</td>
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<td>Biological Sciences (Undergraduate Students)</td>
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<td>Chemistry &amp; Chemical Sciences (Undergraduate Students)</td>
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<td>Ecology, Environmental, &amp; Earth Sciences (Graduate Students)</td>
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<td>Nanoscience (Graduate Students)</td>
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<td>Physics (Undergraduate and Graduate Students)</td>
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<td>Tyler</td>
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<td>Technology &amp; Engineering (Graduate Students)</td>
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<td>Marriott Balcony B</td>
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<td></td>
<td>Technology &amp; Engineering (Undergraduate Students)</td>
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<tr>
<td>4:00pm - 6:00pm</td>
<td>Concurrent Workshops Session 2</td>
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<td></td>
<td>A. Job Search and Application Strategies</td>
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<td>Washington Room 2</td>
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<td></td>
<td>Irene Hulede, Manager, Student Programs, American Society for Microbiology (ASM)</td>
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<td>Beronda Montgomery, Professor of Biochemistry, Michigan State University</td>
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<td>B. Roadmap to Becoming a Doctor</td>
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<td>Maryland C</td>
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<td></td>
<td>Iliana Estevez, Association of American Medical Colleges (AAMC)</td>
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<td></td>
<td>C. Why the Science World Needs Strong Leaders</td>
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<td>Crystal Emery, Founder &amp; CEO, URU</td>
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<td>Washington Room 3</td>
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<td>The Right To Be, Inc and AAAS IF/THEN Ambassador</td>
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<tr>
<td>4:00pm - 6:30pm</td>
<td>D. EFRI/ERC REM Workshop (Invitation Only)</td>
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<td>Welcome: Dawn Tilbury, Assistant Director, Directorate for Engineering (ENG)</td>
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<td>Speaker and Q&amp;A:</td>
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<td>Ucheonye Maple, STEM Career Development Coach and Founder of Aghaeez-Maple Enterprises, LLC; Senior Engineering Manager, John Hopkins University Applied Physics Laboratory</td>
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<td>4:00pm - 4:15pm</td>
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<td>Asher Hart, AAMC</td>
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<td>4:00pm - 4:15 pm</td>
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<td>Speaker and Q&amp;A:</td>
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<td>4:15pm - 5:00pm</td>
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<td>Asher Hart, AAMC</td>
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<td>5:00pm - 5:30pm</td>
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<td>Mentee Session 1: Networking Tricks</td>
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<td>Virginia A</td>
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<td>Facilitators:</td>
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<td>Tammy Wilbert, AAAS Science &amp; Technology Policy Fellow</td>
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<td>Garie Fordyce, Program Manager, EFMA, NSF</td>
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<td>5:30pm - 6:30pm</td>
<td>5:30pm - 6:30pm</td>
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<td>Mentee Session 2: Career Panel</td>
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<td>Moderator: Tammy Wilbert, AAAS Science &amp; Technology Policy Fellow</td>
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<td>Richard Ezike, Senior Policy Associate, The Urban Institute</td>
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<td>Ashley Hudelson, Senior Manager of Engineering Education and Outreach, The American Society of Mechanical Engineers (ASME)</td>
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</table>
Rochelle Jones, Associate Professor, Systems Engineering and Operations Research, George Mason University’s Volgenau School of Engineering

Juanita Koilpillai, Founder & CEO, Waverley Labs

Alias Smith, Associate Program Director, Division of Molecular and Cellular Biosciences (MCB), Directorate for Biological Sciences (BIO), NSF

4:15pm - 6:15pm  E. Mentor Session 1: SWOT Analysis  
Virginia C

Facilitators:  
Christine Grant, Associate Dean of Faculty Advancement, College of Engineering, North Carolina State University

Andrew Greenberg, Distinguished Faculty Associate, College of Engineering, University of Wisconsin-Madison

6:30pm  Dinner on Your Own

Saturday, February 8, 2020

7:00 am  Breakfast on Your Own

7:00am - 2:00pm  Registration Check-in  
Convention Registration and Lobby

7:30am - 5:30pm  Judges’ Room Open  
Maryland A&B

7:30am - 8:00am  Poster Presentations Sessions 3 and 4 (Setup)  
Exhibit Hall A

Oral Presentations Sessions 3 and 4 (Setup)  
(See handout for room assignments.)

9:00am - 11:00am  ADA Resource Room Open  
Maryland A&B

8:00am - 9:30am  HBCU Making & Innovation Showcase Setup (Invitation Only)  
Washington Room 3

8:30am - 10:30am  Concurrent Workshop - Session 3  
A. Funding Your STEM Education: For Undergraduate & Graduate Students  
Marriott Balcony B

Bernard Batson, Director, Diversity Programs, University of South Florida

Sara Hernandez, Associate Dean for Inclusion & Student Engagement, Cornell University

Yolanda Trevino, Assistant Vice President for Diversity, Equity, & Multicultural Affairs, Indiana University

B. Biomedical Scientists (PhD) & Physician Scientists (MD-PhD) Training Programs: Preparing and Applying  
Virginia B

Association of American Medical Colleges (AAMC)

These include:  
Biological Sciences (Undergraduate Students)  
Harding

Chemistry & Chemical Sciences (Undergraduate Students)  
Park Tower 8219

Computer Sciences & Information Mgt. (Undergraduate Students)  
Hoover

Ecology, Environmental, & Earth Sciences (Graduate Students)  
Park Tower 8212

Nanoscience (Graduate Students)  
Coolidge

Technology & Engineering (Graduate Students)  
Park Tower 8216

Technology & Engineering (Undergraduate Students)  
Marriott Balcony A

8:00am - 11:00am  HBCU Making & Innovation Showcase  
Washington Room 3

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A. Funding Your STEM Education: For Undergraduate & Graduate Students  
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B. Biomedical Scientists (PhD) & Physician Scientists (MD-PhD) Training Programs: Preparing and Applying  
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<tr>
<td>9:00am - 10:00am</td>
<td><strong>D. STEM Media and Public Speaking</strong></td>
<td>Park Tower Suite 8206</td>
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<tr>
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<td><strong>Trina Coleman, Beyond the Classroom Radio Show</strong></td>
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<td><strong>Neil Thompson, Teach the Geek to Speak</strong></td>
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<td>9:00am - 10:30am</td>
<td><strong>E. Faculty Mentorship Resources and Training via the National Research Mentoring Network (NRMN)</strong></td>
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<td><strong>Jamboor K. Vishwanatha, Regents</strong></td>
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<td><strong>Professor and Vice President Founding Director, Texas Center for Health Disparities, NRMN</strong></td>
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<td><strong>Damaris Javier, Associate Director, NRMN, University of North Texas Science Center</strong></td>
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<td>9:00am - 12:30pm</td>
<td><strong>Exhibit Hall Opens - Session 3</strong></td>
<td>Exhibit Hall A</td>
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<tr>
<td>9:00am - 3:00pm</td>
<td><strong>Professional STEM Societies Working Group (Invitation Only)</strong></td>
<td>Park Tower 8219</td>
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<td><strong>Virginia A</strong></td>
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<tr>
<td>9:00am - 3:00pm</td>
<td><strong>Students in STEM with Disabilities Working Group (Invitation Only)</strong></td>
<td>Marriott Ballroom</td>
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<td><strong>Marriott Ballroom</strong></td>
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<td>10:30am - 12:30pm</td>
<td><strong>Graduate Research Fellowship Program (GRFP)</strong></td>
<td>Delaware</td>
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<td><strong>Jong-on Hahm, Program Director, DGE, NSF</strong></td>
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<td><strong>Christopher Leigh Hill, Program Director, DGE, NSF</strong></td>
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<td>10:45am - 11:45am</td>
<td><strong>Science Communications Workshop</strong></td>
<td>Marriott Balcony A</td>
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<td><strong>Chloe Poston, Director of Strategic Initiatives, Office of Institutional Equity and Diversity, Brown University</strong></td>
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<td>10:45am - 12:45pm</td>
<td><strong>Federal Science Agency Opportunities</strong></td>
<td>Marriott Balcony B</td>
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<td><strong>Department of Energy (DOE)</strong></td>
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<td><strong>Department of the Navy – HBCU/STEM Division</strong></td>
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<td><strong>US Patent &amp; Trademark Office (USPTO)</strong></td>
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<td>11:00am - 12:30pm</td>
<td><strong>Poster Presentations Session 4</strong></td>
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<td><strong>Oral Presentations Session 4</strong></td>
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<td><strong>Computer Sciences &amp; Information Management (Graduate Students)</strong></td>
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<td><strong>Chemistry &amp; Chemical Sciences (Graduate Students)</strong></td>
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<td><strong>Mathematics &amp; Statistics (Graduate Students)</strong></td>
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<td><strong>Nanoscience (Undergraduate Students)</strong></td>
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<td><strong>Harding</strong></td>
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Agenda

Social, Behavioral, & Economic Sciences and Science/Math Education (Graduate Students)

Park Tower 8228

12:30pm
Exhibits Close
Exhibit Hall A

12:30pm
Lunch On Your Own

12:30pm - 3:30pm
Judges Meeting and Lunch (Determining Awardees)
Maryland A&B

1:30pm - 4:30pm
EFRI-REM Poster Session and Awards
(Offsite Location: National Zoological Park’s Conservation Pavilion)

2:30pm - 4:00pm
ERN Advisory Board Meeting
Maryland C

2:00pm - 5:30pm
Free Time for Tours or Special Meetings

6:00pm - 9:00pm
Plenary Session 4 and Awards Banquet
Marriott Ballroom

(Doors open at 5:45pm)

Moderator:
Shirley M. Malcom, Senior Advisor, and Director of SEA Change, AAAS

Speaker and Q&A
John Urschel, PhD Candidate, Department of Mathematics, MIT and Author, Mind and Matter: A Life in Math and Football

Recognition of David and Lucille Packard HBCU Scholars:

James Stith, Vice President Emeritus, American Institute of Physics (AIP)

Recognition of the AAAS Policy Fellows, SACNAS Leadership Institute Alumni, and the L’Oreal USA for Women in Science (FWIS) Fellows:

Shirley M. Malcom, Senior Advisor, and Director of SEA Change, AAAS

9:30pm - 12:00am
Networking and Karaoke
Hotel Floor Plans

LOBBY LEVEL

EXHIBITION LEVEL
Wesley Cuadrado-Castillo, PhD Candidate, University of Florida

Wesley Cuadrado-Castillo, finished his bachelor’s in Mechanical Engineering at University of Puerto Rico-Mayagüez (UPRM) in December 2011. On January 2012, Wesley started his master’s of science in Mechanical Engineering with a focus in Materials Science and Engineering. Wesley’s master’s studies and research was sponsored by the Center for Education and Training in Agriculture and Related Sciences (CETARS), a United States Department of Agriculture (USDA) funded program at the UPRM.

His master’s thesis research topic was on sintered titanium dioxide (TiO2) / recycled glass composites designed for potential degradation of waterborne pollutants. In 2013, Wesley had the opportunity to participate at the Emerging Researchers National (ERN) Conference where he presented his research poster titled: Percolation in Recycled Glass Designed for Polluted Soil Filtering. During this academic and professional experience, he was able to interact with different professionals in the field of science and engineering that were able to provide enriching feedback and questions regarding the topic.

Currently, Wesley is a fourth-year PhD candidate at the University of Florida (UF) working on the design of lightweight Magnesium (Mg) alloy sheets designed for car door panels. This project is supervised by Michele V. Manuel, professor and chair of the Department of Materials Science and Engineering at UF. This current research project is focused on the study and improvements of Mg formability by additions of Calcium (Ca) and Zinc (Zn) solutes and throughout thermo-mechanical processing. This project is part of the United State Automotive Materials Partnership (USAMP) LLC and is funded by the Department of Energy (DOE).

Davina P. Durgana, AAAS IF/ THEN Ambassador & Adjunct Instructor School of International Service, American University

Davina P. Durgana, PhD is an award-winning international human rights statistician who has developed leading global models to assess risk and vulnerability to modern slavery. Durgana is a report co-author and Senior Statistician on the Global Slavery Index of the Minderoo Foundation’s Walk Free Initiative.

She is the American Statistical Association’s 2016 Statistical Advocate of the Year, a committee member of Statistics without Borders, and a Forbes Top 30 Under 30 in Science for 2017 for her work on statistical modeling, human security theory, and human trafficking. Durgana has also recently been announced as an inaugural IF/Then Ambassador working to encourage women to pursue STEM fields with the American Association for the Advancement of Science.

Durgana is Assistant Professor of Sustainable Development at SIT Graduate Institute in D.C. where she served as Lead Faculty on the Inclusive and Human Security Graduate Certificate program with the Institute for Inclusive Security. Durgana was selected as a Google Fellow for Technology and Social Change for her work in Human Trafficking and Technology.

She was also awarded with the Trafficking in America Task Force Award for Service for her contributions to the Anti-Trafficking Field in the United States and was named as a Disruption Awards Foundation Fellow for 2018. She serves on several expert groups for the United Nations, the Department of Justice, and the National Science Foundation.

In 2015 she received the University Award for Outstanding Scholarship at the Graduate Level from American University where she received her PhD in International Relations with Distinction. She received her Master’s degrees in Paris, France while studying human trafficking at the Sorbonne and the American University of Paris, and her Bachelor’s degree at George Washington University’s Elliott School of International Affairs.

Huda Elasaad, AAAS Lemelson Invention Ambassador & CTO of PV Pure

Huda is a social entrepreneur and consultant with extensive academic and applied background in the water and sanitation field. She has professional experience internationally, including Mexico and the Middle East, and in various facets of the water industry, including municipal plant operations for wastewater treatment, desalination, and water process engineering. While at the Department of Mechanical Engineering at MIT in 2012, she focused on developing water purification technology for challenging, off-grid environments. Today, she is CTO of change:WATER Labs, working to bring novel toilet technology to the developing world. Huda consults in the field of commercial aquaculture and is a published author in the fields of environmental public health, water treatment design, maintenance optimization and field applications.
Crystal Emery, Founder & CEO, URU The Right To Be, Inc. and AAAS IF/THEN Ambassador

Crystal Emery is known for producing narratives aimed at creating a more equitable society. She is the Founder and CEO of URU The Right To Be, Inc., a nonprofit content production company that addresses issues at the intersection of humanities, arts, and sciences. Emery is a member of the Producers Guild of America and New York Women in Film and Television and was selected in 2019 as an AAAS IF/THEN Ambassador. She has designed and produced several groundbreaking Virtual Reality Learning Experiences. Recently, Crystal began production on "The Intersection of Crystal R. Emery," a series of podcasts exploring Crystal’s life as a Black woman, filmmaker, writer, and a quadriplegic. Her contributions have been recognized with numerous awards, including the Congressional Black Caucus Health Braintrust Leadership in Journalism Award, the BronzeLens Film Festival Spirit Award, the Trailblazer Award from NANBPWC and the United Nations as part of the International Year for People of African Descent, and the Yale University Seton Elm-Ivy Award.

In 2016, Emery’s film “Black Women in Medicine” cleared all Academy of Motion Picture Arts and Sciences requirements necessary to qualify for an Academy Award nomination in the “Best Documentary” category. Emery, in conjunction with the National Academies of Sciences, Engineering, and Medicine, introduced Changing the Face of STEM and the “You Can’t Be What You Can’t See” Virtual Reality Project, aimed at closing the identification gap for young marginalized students within the STEM realm. Emery believes that perseverance, faith, and trusting in a power greater than oneself comprise the road to success. She continues to shape a successful, fulfilling personal and professional life while triumphing over two chronic diseases as a quadriplegic.

Emery received her B.A. from the University of Connecticut, her M.A. in Media Studies from The New School of Public Engagement, and an honorary Doctorate of Letters from UConn in 2018, on which occasion she gave the commencement address to an audience of over 20,000. In so doing, she became the first Black female speaker at UConn’s College of Liberal Arts and Sciences, and the first commencement speaker to receive two standing ovations.

Yolanda S. George, Former Deputy Director and Program Director, AAAS EHR

Yolanda Scott George served as the Deputy Director and Program Director for STEM education at the American Association for the Advancement of Science (AAAS) for more than 30 years. Prior to joining AAAS, she was Director of Development, Association of Science-Technology Centers (ASTC), Washington, DC; Director, Professional Development Program, University of California, Berkeley; and a research biologist at Lawrence Livermore Laboratory involved in cancer research and cell cycle studies using flow cytometry and cell sorters.

George has conducted evaluations, workshops and reviews for the National Institutes of Health and National Science Foundation (NSF), as well as for private foundation and public agencies, including the European Commission. She worked with UNIFEM, UNESCO, L’Oreal USA and Paris and non-governmental organizations on gender, science, and technology initiatives related to college and university recruitment and retention and women’s leadership in STEM.

She has served as principal investigator (PI) or co-PI on several NSF grants, including Vision and Change in Undergraduate Biology Education; National Science Education Digital Library Biological Sciences Pathways; Historically Black Colleges and Universities-Undergraduate Programs; Robert Noyce Teacher Scholarship Program; Transforming Undergraduate Education in STEM (TUES) and Virtual Faculty Workshops; and Women’s International Research Collaborations at Minority Serving Institutions. George was the lead AAAS staff person for the L’Oreal USA Fellowships for Women in Science Program (postdoctoral fellowships) and the David and Lucile Packard Foundation HBCU Graduate Scholars Program (graduate school fellowships).

George served as a board or committee member for the following organizations: PBS NewsHour Science Advisory Committee; Burroughs Wellcome Fund Science Enrichment Program Grants Advisory Board; The HistoryMakers, ScienceMakers, Advisory Board; and the National Advisory Board of the American Physical Society Physics Bridge Program.

George has authored or co-authored over 50 papers, pamphlets, and hands-on science manuals. She received her BS and MS from Xavier University of Louisiana and Atlanta University in Georgia, respectively.
Monica Golgi, PhD Candidate, University of Illinois at Urbana-Champaign

Monica Golgi is completing an MBA/PhD in Cell and Developmental Biology at the University of Illinois Urbana Champaign. Her research focuses on understanding the genetic causes of autism. She is also the co-founder and CEO of Campus Ventures - a social startup that matches talented, low-income minority high school students with elite institutions and serves as an Early Career Policy Ambassador for the Society for Neuroscience.

Sylvia James, Deputy Assistant Director, Directorate for Education and Human Resources (EHR), NSF

Sylvia M. James is currently the Deputy Assistant Director of the National Science Foundation’s (NSF) Directorate for Education and Human Resources (EHR). The mission of EHR is to “…provide the research foundation to develop a diverse, STEM literate public and workforce ready to advance the frontiers of science and engineering for society.” As the Deputy Assistant Director, she oversees aspects of directorate program development, staffing, performance management, and internal and external communications.

Prior to assuming this role in January 2017, she served as the Director of the Division of Human Resource Development (HRD). As Division Director, she managed a $148 million budget and a talented team of scientific and administrative staff. During her 15 year tenure at NSF, she has served as the Acting Division Director of the Division of Human Resource Development, Acting Director and Acting Deputy Division Director of the Division of Research on Learning in Formal and Informal Settings, Lifelong Learning Cluster Coordinator, and Lead Program Director/Program Director for several EHR programs including ISE, ITEST, ATE, ASCEND, and AYS.

James currently serves as the Co-Chair of the Federal Coordination in STEM (FC-STEM) Broadening Participation Interagency Working Group and was a member of the Burroughs Wellcome Fund, Student Science Enrichment Program (SSEP) Advisory Committee from 2012-2016. She has served as an education consultant for science education radio, youth publications, and museums and an adjunct science faculty member. James holds a Bachelor of Science degree in Biology from Loyola University, a Master of Science degree from Johns Hopkins University, and a Doctorate in Science Education from Morgan State University, all located in Baltimore, Maryland.

Kelly Mack, Vice President and Executive Director, Project Kaleidoscope, Office of Undergraduate Science Education (PKAL/STEM), AAC&U

Kelly Mack is the Vice President for Undergraduate STEM Education and Executive Director of Project Kaleidoscope at the Association of American Colleges and Universities (AAC&U). Prior to joining AAC&U, Mack was the Senior Program Director for the National Science Foundation (NSF) ADVANCE Program while on loan from the University of Maryland Eastern Shore (UMES) where, as a Professor of Biology, she taught courses in Physiology and Endocrinology for 17 years.

Mack earned the BS degree in Biology from UMES and, later, the PhD degree from Howard University in Physiology. She has had extensive training and experience in the area of cancer research with her research efforts focusing primarily on the use of novel antitumor agents in breast tumor cells. Most recently, her research focus has involved the use of bioflavonoids in the regulation of estrogen receptor positive (ER+) and estrogen receptor negative (ER-) breast tumor cell proliferation.

Mack has served as a member of the Board of Governors for the National Council on Undergraduate Research and is a current member of the National Institutes of Health Review Subcommittee for Training, Workforce Development and Diversity. She also recently completed a brief stint as Executive Secretary for the NSF Committee on Equal Opportunities in Science and Engineering, which is the Congressionally mandated advisory body.
that focuses on efforts to broaden the participation of underrepresented groups in the STEM disciplines.

Jonathan Lambright, Professor, Former Dean of Colleges of Sciences and Technology, Savannah State University

Jonathan Lambright is a professor in the department of Engineering Technology at Savannah State University. Lambright served as the Dean of the College of Sciences and Technology at Savannah State University from 2012 to 2017. In this role, he led over 75 faculty and staff in a college of over 1,500 students majoring in 9 undergraduate and graduate degree programs. He has also served as the interim Assistant Vice President for Academic Affairs and the Chair of the Engineering Technology and Mathematics department.

Lambright obtained a BS in Mechanical Engineering from North Carolina A&T State University in 1985. After working for 3 years as a Mechanical Engineer at the Department of Defense, he returned to graduate school at North Carolina A&T State University and received his MS in Mechanical Engineering in 1990 with a focus in Computer Aided Design and Manufacturing. He then attended the Georgia Institute of Technology’s George W. Woodruff School of Mechanical Engineering and obtained his PhD in Mechanical Engineering in 1996. While at Georgia Tech, Jonathan focused his studies and research on design methodology and manufacturing automation. During the period between 1992 and 1996, Jonathan worked for the Lockheed Martin Aeronautical Systems Co. in Marietta GA. At Lockheed, he worked on various research and development projects within the Advanced Design department. Between 1996 and 2002 he consulted with Fortune 500 and other companies in areas of Enterprise Applications including Manufacturing Execution Systems and Customer Relation Management Systems. During the 2010–2011 academic year, Lambright participated in and became a graduate of the University System of Georgia’s Executive Leadership Institute. In the summer of 2008, he was selected as a NASA ESMD Summer Faculty Fellow at the NASA Stennis Space Center. In 2006, he received the Savannah State University NROTC teacher of the year award. He has taught courses for the Georgia Tech Regional Engineering Program at Savannah State and has been involved in engineering education research targeted at increasing the numbers of minority students majoring in and graduating from engineering disciplines.

Camille A. McKayle, Provost and Vice President for Academic Affairs, University of the Virgin Islands, St. Thomas and St. Croix

Camille A. McKayle is Provost and Vice President of Academic Affairs at the University of the Virgin Islands (UVI). Previous to this, she served as Dean of the College of Science and Mathematics. Additionally, McKayle is a PI for the NSF funded Center for the Advancement of STEM Leadership (CASL).

McKayle has a deep commitment to quality education. She has served as principal investigator and project director for various grant projects at the university that aimed to strengthen the quality of the preparation in science and mathematics for students at UVI, as well as students in K-12 Virgin Islands schools. The overall goal of those efforts was increasing the number of students that became and remained interested in the STEM disciplines and ultimately choose to enter into the STEM workforce.

From 2005-2008, McKayle was Program Officer at the National Science Foundation for the Historically Black Colleges and Universities Undergraduate Program in the Directorate for Education and Human Resources. McKayle received her BS in Mathematics from Bates College, and MS and PhD, also in Mathematics (Partial Differential Equations), from Lehigh University. Her current research is in the area of STEM Education and STEM Leadership.

Shirley M. Malcom, Senior Advisor, and Director of SEA Change, AAAS

Shirley Malcom is Senior Advisor and Director of SEA Change at AAAS. She has served as a program officer in the NSF Science Education Directorate; an assistant professor of biology at the University of North Carolina, Wilmington; and a high school science teacher. Malcom received her PhD in Ecology from the Pennsylvania State University; Master’s in Zoology from the University of California, Los Angeles; and Bachelor’s with distinction in Zoology from the University of Washington. In addition, she holds 17 honorary degrees.

Malcom serves on several boards, including the Heinz Endowments, Public Agenda, Digital Promise, and the National Mathematics and Science Initiative. She serves as a trustee of Caltech and as a Regent of Morgan State University. In 2003, Malcom received the Public Welfare Medal of the National Academy of Sciences, the highest award given by the Academy. She was a member of the National Science Board, the policymaking body
Karen Marrongelle, Assistant Director, NSF EHR

Karen Marrongelle is the Assistant Director of the National Science Foundation (NSF) for Education and Human Resources (EHR). She leads the EHR directorate in supporting research that enhances learning and teaching to achieve excellence in U.S. science, technology, engineering and mathematics (STEM) education. Prior to joining NSF, Marrongelle was dean of the College of Liberal Arts and Sciences at Portland State University and Professor of Mathematics and Statistics, where she oversaw 24 departments and programs across the humanities, social sciences and natural sciences.

In addition to her work as dean, Marrongelle has served as a faculty member in the Department of Mathematics and Statistics at Portland State University since 2001. Prior to her appointment as dean, she held positions as the Vice Chancellor for Academic Strategies and Assistant Vice Chancellor for Academic Standards and Collaboration with the Oregon University System. From 2007-2009, Marrongelle served on a rotation as a program officer at NSF and led numerous grants, collaborating with researchers nationally and internationally to improve undergraduate mathematics education and K-12 mathematics professional development.

Marrongelle has a bachelor’s degree in mathematics and philosophy from Albright College, a master’s degree in mathematics from Lehigh University and a doctorate in mathematics education from the University of New Hampshire.

Sudip Parikh, Chief Executive Officer and Executive Publisher, Science Journals, American Association for the Advancement of Science (AAAS)

Sudip Parikh, PhD, became the 19th chief executive officer of the American Association for the Advancement of Science (AAAS) and executive publisher of the Science family of journals in January 2020. Parikh has spent two decades at the nexus of science, policy, and business.

Immediately prior to joining AAAS, Parikh was senior vice president and managing director at DIA Global, a neutral, multidisciplinary organization bringing together regulators, industry, academia, patients, and other stakeholders interested in healthcare product development. He led strategy in the Americas and oversaw DIA programs that catalyzed progress globally toward novel regulatory frameworks for advanced therapies not amenable to existing regulations.

Prior to DIA, Sudip was general manager of the Health and Consumer Solutions business unit and vice president at Battelle, a multibillion-dollar research and development organization. He led a $150 million business unit with over 500 scientific, technical, and computing experts performing basic and applied research, developing medicines and healthcare devices, and creating advanced analytics and artificial intelligence applications to improve human health. Previously, Parikh led Battelle’s global AgriFood business unit. Headquartered in London and Geneva, this unit provided environmental fate research and agriculture product development services from laboratories throughout Europe and the United States.

Sudip is committed to early STEM education and, as a parent of three energetic young children, he prioritizes volunteering as a mentor for Science Olympiad teams at two elementary schools.

Early in his career, Parikh was a Presidential Management Intern at the NIH. He was awarded a National Science Foundation Graduate Research Fellowship while earning his PhD in macromolecular structure and chemistry from the Scripps Research Institute in La Jolla, California. There, he used structural biology and biochemistry techniques to probe the mechanisms of DNA repair enzymes bound to DNA. The son of Indian immigrants who worked in the textile and furniture manufacturing plants of North Carolina, Parikh completed undergraduate studies at the University of North Carolina at Chapel Hill, first as a journalism major before switching into materials science.

Claudia Rankins, Program Director, HRD, NSF

Claudia Rankins is a Program Officer in the Directorate for Education and Human Resources at the National Science Foundation, where she manages the Historically Black Colleges and Universities Undergraduate Program and the Centers for Research Excellence in Science and Technology. Prior to this post, Rankins served at Hampton University for 22 years in a number of capacities, including Chair of the Department of Physics, Assistant Dean for Research, and dean of the School of Science. Rankins holds a PhD in Physics from Hampton University. She is the co-founder of the Society of STEM Women of Color, Inc.
Biographies

Sohi Rastegar, Head, Office of Emerging Frontiers and Multidisciplinary Activities (EFMA), Directorate for Engineering, National Science Foundation

Sohi Rastegar is Senior Advisor and the Head of the Office of Emerging Frontiers and Multidisciplinary Activities (EFMA) at the National Science Foundation (NSF), Directorate for Engineering. He joined NSF in November 2003 following fifteen years of academic and administrative service at Texas A&M University, Virginia Commonwealth University, and the Johns Hopkins University. He has been an Invited Professor at the Swiss Institute of Technology in Lausanne (EPFL), Switzerland. He earned his BS (Highest Honors) and MS in Aerospace Engineering, and his PhD in Biomedical Engineering at the University of Texas at Austin. Rastegar has over 150 scientific publications and presentations and has trained 8 PhD and 14 M.S. students. He is a co-founder of BioTex, Inc., a medical device company in Houston, Texas. He is a Fellow of the American Institute for Medical and Biological Engineering (AIMBE), a Fellow of the American Society for Lasers in Medicine and Surgery (ASLMS), has served as the Chair of Bioengineering Division of ASME, Associate Editor of Annals of Biomedical Engineering, a member of the Editorial Boards of the Journals of Biomedical Optics and Journal of Diabetes Science and Technology. Rastegar is the recipient of awards and honors including the Select Young Faculty Award from the Texas Engineering Experiment Station, and the Director’s Superior Accomplishment Award from the NSF.

James Stith, Vice President Emeritus, American Institute of Physics (AIP)

James H. Stith is Vice President Emeritus for the American Institute of Physics (AIP). An officer of the Institute, he has oversight responsibilities for AIP’s Magazine Division, the Media and Government Relations Division, the Education Division, the Center for the History of Physics, the Statistical Research Center and the Careers Division. Throughout his career, James has been an advocate for programs that ensure ethnic and gender diversity in the sciences.

Earning his doctorate in Physics from Pennsylvania State University, he received his master’s and bachelor’s degrees in physics from Virginia State University. An internationally known physics education researcher, his primary interests are in Program Evaluation and Teacher Preparation and Enhancement. He was a Professor of Physics at The Ohio State University and Professor of Physics at the United States Military Academy. A retired Colonel, Stith was the first African American to earn tenure at West Point.

Stith is a past President of the American Association of Physics Teachers (first African American), past President of the National Society of Black Physicists, a Fellow of the American Association for the Advancement of Science, a Fellow of the American Physical Society, a Fellow of the American Association of Physics Teachers, and a Chartered Fellow of the National Society of Black Physicists. Stith was named a Distinguished Alumni of The Pennsylvania State University, an Honorary Member of Sigma Pi Sigma, the physics honor society (its highest award) and a National Academies Education Mentor in the Life Sciences. He was recognized by Science Spectrum Magazine as one of the 50 Most Important Blacks in Research Science and was named a ScienceMaker, a MilitaryMaker and an EducationMaker by HistoryMakers. In 2018, Stith was presented with the Albert Nelson Marquis Lifetime Achievement Award by Marquis’s “Who’s Who”. Additionally, he serves on several national and international advisory boards and has been awarded a Doctor of Humane Letters by his alma mater, Virginia State University. His military awards include the Legion of Merit Medal, Meritorious Service Medal, Army Commendation Medal W/Oak Leaf Cluster and the Air Force Commendation Medal.

Dawn Tilbury, Assistant Director, Directorate for Engineering (ENG)

Dawn Tilbury leads the National Science Foundation’s (NSF) Directorate for Engineering (ENG), which supports engineering research and education critical to the nation’s future and fosters innovations that benefit society. Tilbury comes to NSF from the University of Michigan (U-M), where she is a professor of mechanical engineering and served as associate dean for research in the College of Engineering. As associate dean, Tilbury led the development of interdisciplinary research teams to advance both large- and small-scale projects.

A professor at U-M since 1995 in both mechanical and electrical engineering, Tilbury has a background in systems and control engineering. As the first chair of the Robotics Steering Committee at U-M, she identified and capitalized on opportunities to advance robotics research at the university. In 2016, the U-M Board of Regents approved a $75 million building for research and teaching facilities, including laboratories for walking and flying robots and autonomous cars. She has written or co-authored more than 60 peer-reviewed papers, reports, book chapters and books, and holds a patent with two other researchers for logic controllers for machining systems.

Tilbury has been active in professional society and academic leadership positions, and has received numerous honors and awards for outstanding research and leadership. She has acted
as a principal investigator on dozens of highly competitive federal awards, including an NSF Faculty Early Career Development (CAREER) grant in 1998. She has supervised dozens of graduate students and planned the Big 10 Women’s Workshops, a multi-university mentoring and networking workshop series for junior women faculty in engineering.

John Urschel, PhD Candidate, Department of Mathematics, MIT and Author, Mind and Matter: A Life in Math and Football

John Urschel is a mathematician and a former NFL offensive lineman. Urschel attended Penn State University, where he played football and received his bachelor’s and master’s degrees in mathematics. While at Penn State, he was awarded the Campbell Trophy, commonly known as the “Academic Heisman,” and the Sullivan Award, presented to “the most outstanding amateur athlete in the United States.” Urschel was drafted by the Baltimore Ravens in 2014, and played three seasons in the NFL. He has published a number of research papers in areas including graph theory, machine learning, and numerical analysis. In 2017, Urschel was named to Forbes’ “30 under 30” list of outstanding young scientists, and, in 2019, published a New York Times-bestselling memoir, Mind and Matter: A Life in Math and Football. He is currently a fourth-year PhD student in mathematics at MIT.

Iris R. Wagstaff, ERN Conference Lead and NSF PI, STEM Program Director, AAAS

Iris R. Wagstaff, PhD, is a scientist, educator, mentor, researcher and STEM advocate. She currently serves as a STEM Program Director in the Diversity, Equity, and Inclusion Department of AAAS where she manages initiatives at the undergraduate, graduate, and post-doctoral levels focused on broadening participation in STEM and workforce development. She is also a Principal Investigator of several National Science Foundation (NSF) grants the include: Preparing Diverse STEM Researchers to Address Global Challenges, Developing an Evidenced-Based Best Practices Community for Supporting Low-Income, High-Achieving Students in STEM Education and the Workforce, and The Impact of Making and Innovation at HBCUs. She served as a 2015-2017 AAAS Science and Technology Policy Fellow at the DOJ National Institute of Justice Office where she developed and led an agency-wide diversity and inclusion initiative.

She is a native of Goldsboro, NC with a BS and MS in Chemistry from UNC-Greensboro and NC A&T State Universities respectively; and a PhD in Science Education from North Carolina State University. She worked as a research chemist at the Dow Chemical Company for 15 years where she led analytical project teams and company-wide diversity initiatives. She has over 20 years of STEM outreach and advocacy developing informal science programs, mentoring, resourcing parents, facilitating professional development for K-12 science teachers, and building strategic partnerships between industry, academia, and community organizations. Additionally, she has expertise in program evaluation, STEM curricula development, and pedagogy. She is the Founder and Executive Director of Wagstaff STEM Solutions; an educational, professional development, and diversity consulting company.

Wagstaff is also a social scientist with a research focus on employing statistical modeling to examine factors that predict science self-efficacy, science identity, and STEM career interest in high school and college students who are underrepresented in STEM. She serves on the Boards of several organizations that include the National Organization of Black Chemists and Chemical Engineers (NOBCChE), the Chemical Society of Washington (CSW), and Science, Engineering, and Math Links (SEM). She is an adjunct chemistry professor at the University of North Carolina at Greensboro where she leads diversity and inclusion efforts to broaden participation in the chemical sciences. She has received several honors that include the 2019 DC Metro HBCU Alumni Alliance Award for Education, the 2019 AERA Science Teaching and Learning Research Award, the 2019 BEYA Science Spectrum Trailblazer Award, the 2018 NOBCChE Presidential Award for Mentoring, the 2017 Women of Color in STEM K-12 Promotion of Education Award, and a 2016 nomination for the NSF Presidential Award for Excellence in Science, Math, Engineering Mentoring (PAESMEM).

Neela White, Project Director, AAAS

Neela White is a Project Director at the American Association for the Advancement of Science (AAAS). She currently works on programs including the AAAS-Lemelson Invention Ambassador Program, the AAAS Marion Milligan-Mason Awards for Women in the Chemical Sciences, and the Measuring the Impact of Making and Innovation at HBCU program. She has served as an external evaluator for multiple projects including the NSF INCLUDES Early STEM Engagement for Minority Males (eSEM) project and the Verizon Innovative Learning Summer Program for Minority Males at Morgan State University. She has also served as a Program Associate for the AAAS District of Columbia program. Her areas of focus have been within the sectors of invention; innovation; entrepreneurship; Science, Technology, Engineering and Math (STEM) education; Maker movement; international research collaboration; and diversity, equity and inclusion in science.

Prior to AAAS, she worked at the Brookings Institute as the Administrator for the Center on Social and Economic Dynamics.
Biographies

She also served as the Public Affairs Manager and Board Liaison for the Center for Excellence in Education. White earned her bachelor’s degree in biology from Temple University in 2003.

Sacoby Wilson, Associate Professor, Maryland Institute for Applied Environmental Health and Department of Epidemiology and Biostatistics, School of Public Health, University of Maryland-College Park

Sacoby Wilson is an Associate Professor with the Maryland Institute for Applied Environmental Health and Department of Epidemiology and Biostatistics, School of Public Health, University of Maryland-College Park. Wilson has over 15 years of experience as an environmental health scientist in the areas of exposure science, environmental justice, environmental health disparities, community-engaged research including crowd science and community-based participatory research (CBPR), air pollution studies, built environment, industrial animal production, climate change, and community resiliency. He works primarily in partnership with community-based organizations to study and address environmental justice and health issues and translate research to action.

Wilson is Director of the Community Engagement, Environmental Justice and Health (CEEJH) Initiative. CEEJH is focused on providing technical assistance to communities fighting against environmental injustice and environmental health disparities in the DMV region and across the nation. He is a member of the USEPA’s National Environmental Justice Advisory Council (NEJAC), on the board of the Citizen Science Association, a past Chair of the APHA Environment Section, past board member of Community-Campus Partnerships for Health, and a former Chair of the Alpha Goes Green Initiative, Alpha Phi Alpha Fraternity, Inc. He is also a senior fellow in the Environmental Leadership Program.

Wilson, a two-time EPA STAR fellow, EPA MAI fellow, Udall Scholar, NASA Space Scholar, and Thurgood Marshall Scholar, received his BS degree in Biology/Ecotoxicology with a minor in Environmental Science from Alabama Agricultural and Mechanical University in 1998. He received both his MS and PhD in Environmental Health from UNC-Chapel Hill.
Nigel Golden, University of Massachusetts
Patrice Gregory, Sandia National Laboratories
Angela Grimes, Covance
Paul Gueye, NSCL
Michelle Guinn, Belmont University
Mary Harris, BioTechnical Communications, Inc.
Valorie Hutson, Hutson Consulting
Racquel Jemison, American Chemical Society
Kayenda Johnson, United States Digital Service at the Centers for Medicare and Medicaid Services
Emmitt Jolly, Case Western Reserve University
Bob King, King Education Consultants
Tina King, King Education Consultants
Mary Ann Leung, Sustainable Horizons Institute
Kim Lewis, Howard University
Nicholas Luke, North Carolina A&T State University
Arlene Maclin, Howard University
Marisa Madison, Miami Dade College
Lee Anne Martinez, Colorado State University-Pueblo
Harry McElroy, Performigence Corporation
James McGee, Lone Star College
Tanisha McGlothen, Spelman College
Ava Morrow, Retired Gallaudet University
Tagbo Niepa, University of Pittsburgh
Terry Nile, UNCG
Shantisa Norman, Sandia National Laboratories
Joseph Nunez, Schoolcraft College
Camellia Okpodu, Xavier University of Louisiana
Chi Onyewu, Regeneron Pharmaceuticals
Manu Platt, Georgia Institute of Technology
Stephen Roberson, NSBP
Dione Rossiter, Carnegie Institution for Science
Aubrey Smith, Montgomery College
Michael Smith, Tempugo
Tokiwa Smith, SEM Link
Andrea Stith, UC Santa Barbara
James Stith, Retired APS
Alexei Stortchevoi, Massachusetts Institute of Technology
Fedora Sutton, Science Visions Inc.
Ashley Taylor, Johnson and Johnson
Neil Thompson, Teach the Geek to Speak
Bryan Kent, Wallace Fisk University
Kedra Wallace, University of Mississippi Medical Center
Edward Walton, California State Polytechnic University, Pomona
Luisa Whittaker-Brooks, University of Utah
Braska Williams, North Carolina State University
Joycelyn Wilson, Spelman College
Danyelle Winchester, Johns Hopkins
Victor Wyatt-Prater, USDA
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Exhibitor Descriptions

Table 47
AAAS
American Association for the Advancement of Science
1200 New York Avenue NW
Washington, DC  20001

Contact: Allison Pritchard, apritcha@aaas.org

Science Careers, produced by Science and AAAS, offers key resources to advance your career. Thousands of searchable jobs from industry, academia, and government are available online. Our free website also offers job alert e-mails, career advice, a resume/CV database and more. Whether you need career advice or access to the latest job opportunities, visit ScienceCareers.org today. If your needs involve recruiting, employers can reach the best and brightest scientists who visit the site regularly to utilize all these great features. Visit ScienceCareers.org today.

Table 27
AAMC
Association of American Medical Colleges
655 K Street NW, Suite 100
Washington, DC   20001

Contact: Alexandra Mazzarisi, amazzarisi@aamc.org

The AAMC serves and leads the academic medicine community to improve the health of all. We are dedicated to advancing medical education to meet society’s evolving needs; making patient care safer, more affordable, and more equitable; and sustaining the discovery of scientific advances.

Table 70
Albert Einstein College of Medicine
Graduate Division of Biomedical Sciences
1300 Morris Park Avenue
Belfer 203
Bronx, NY  10461

Contact: Victoria Freedman, victoria.freedman@einstein.yu.edu

Albert Einstein College of Medicine, Graduate Division of Biomedical Sciences programs: PhD, MD/PhD, Postbaccalaureate Research Education Program (PREP), and Summer Undergraduate Research “Research Knows No Boundaries.” Established in 1957, Einstein provides an exciting intellectual environment in which students acquire the knowledge and skills necessary to attain the PhD and MD/PhD degrees in the biomedical sciences. Graduate students work with faculty at the forefront of disease-relevant research in these areas: BIOCHEMISTRY, BIOINFORMATICS, BIOPHYSICS, CANCER, CELL and MOLECULAR BIOLOGY, GENETICS, IMMUNOLOGY INFECTIONOUS DISEASES, NEUROSCIENCES, STEM CELL BIOLOGY, SYSTEMS BIOLOGY, EPIDEMIOLOGY, VIROLOGY and more! Unique PhD tracks in CLINICAL INVESTIGATION and TRANSLATIONAL SCIENCE are also offered. A robust Career & Professional Development program, including career exploration and professional skills development, is available to all graduate students. Our PhD alumni are scientists in every career path from basic to applied research in academia, big pharma and biotechnology, as well as science communication, science policy, science education and more. Follow your imagination! All PhD, MD/PhD, and PREP students receive: Full tuition remission, Annual stipend, Health Insurance, and Subsidized housing.

Contact us for more information: www.einstein.yu.edu/phd

Table 4
American Society for Microbiology
1752 N Street, NW
Washington, DC  20036

Contact: Irene Hulede, ihulede@asmusa.org

The American Society for Microbiology (ASM) is a professional society that offers several professional development programs for undergraduate and graduate students interested in pursuing careers in the microbial sciences. Students may participate in fellowship programs, webinars and conferences. Visit www.asm.org/catalogue to learn more. ASM is a sponsor of the Annual Biomedical Research Conference for Minority Students (ABRCMS) and organizes the conference each year. ABRCMS is currently one of the largest STEM conferences for underrepresented students. Visit www.abrcms.org to learn more.

Table 59
Binghamton University
State University of New York
PO Box 6000
Binghamton, NY  13902-6000

Contact: Monica Majors, mmajors@binghamton.edu

Binghamton University, a nationally distinguished State University of New York (SUNY) Center of Excellence, combines the atmosphere of a mid-sized public institution with the resources of a large research university. Our University offers a broad scope of rigorous and prestigious graduate programs. Whether you are a full-time student looking to immerse yourself in a master’s or doctoral program or a professional working to earn an advanced degree or certificate, you can find your fit here. Binghamton University is proud to be ranked among the elite public universities in the nation for challenging our students academically, not financially. Our research, scholarship and creative exploration have earned an international
reputation, and our teaching opportunities, internships and leadership experiences will help you master the skills you need to succeed. Representatives from the Thomas J. Watson School of Engineering and Applied Science will attend the conference. The Watson School provides a top-ranked engineering and computer science education in upstate New York. Our exceptional faculty members are both innovative researchers and supportive professors. Students come to the Watson School from all over the world and represent a wide range of backgrounds and interests. They graduate with broad-based skills and the entrepreneurial spirit to succeed in fields ranging from mechanical engineering to hospital operations to the law.

Table 11
Claflin University
400 Magnolia Street
Orangeburg, SC  29115

Contact:  Nankwanga Cherry, ncherry@claflin.edu

Claflin University is a comprehensive institution of higher education affiliated with the United Methodist Church. A historically Black university founded in 1869, Claflin is committed to providing students with access to exemplary educational opportunities in its undergraduate, graduate and continuing education programs. Claflin is dedicated to providing a student-centered, liberal arts education grounded in cutting-edge research, experiential learning, state-of-the art technology, community service, and life-long personal and professional fulfillment. Claflin is a diverse and inclusive community of students, faculty, staff and administrators who work to cultivate practical wisdom, judgment, knowledge, skills and character needed for globally engaged citizenship and effective leadership.

Table 62
Colgate-Palmolive Co.
909 River Road
Piscataway, NJ  08855

Contacts:  Andrew Morgan, andre_morgan@colpal.com
Sharon Kennedy, sharon_kennedy@colpal.com

Colgate-Palmolive is a leading global consumer products company, tightly focused on Oral Care, Personal Care, Home Care and Pet Nutrition. Colgate-Palmolive sells its products in over 200 countries and territories around the world under such internationally recognized brand names as Colgate, Palmolive, Mennen, Softsoap, Irish Spring, Proxen, Sorriso, Kolynos, Elmex, Tom’s of Maine, Ajax, Axion, Soupline, and Suavitel, as well as Hill’s Science Diet and Hill’s Prescription Diet. For more information about Colgate-Palmolive’s global business, visit the company's web site at www.colgate.com. To learn more about Colgate’s global oral health education program, Bright Smiles, Bright FuturesTM, please visit http://www.colgatebsbf.com.

Table 78
Colorado School of Mines
1500 Illinois Street
Golden, CO  80401

Contact:  Molly McAndrew, mmcandrew@mines.edu

Colorado School of Mines is known globally for the quality of its distinctive graduates, the success of its alumni and its unique expertise in topics related to earth, energy and the environment. Mines produces industry-ready scientists and engineers known for their work ethic, problem-solving ability and teamwork focus. Mines graduates are in great demand by companies and government entities around the world and are involved in solving major technical and societal challenges of our times. Mines offers all the advantages of a world-class research institute, with a size that allows for personal attention. Mines’ renowned faculty creates a challenging and supportive learning environment. With many new buildings and facilities, Mines is an innovative, modern campus, working toward tackling new problems, fostering an entrepreneurial mindset and maintaining an enhanced sense of responsibility to promote positive change in the world.

Table 31
Emory University, Laney Graduate School
201 Dowman Drive
Atlanta, GA  30322

Contact:  Amanda Marie James, amandamariejames@emory.edu

The Laney Graduate School offers the PhD and Master’s degrees in more than 40 programs across the humanities, social sciences, biomedical and natural sciences, public health, nursing and business. Our graduate students are present in nearly every area of research at Emory, working with esteemed faculty and researchers to solve the complex problems of our time and advance the global good.

Table 6
FAMU-FSU College of Engineering
2525 Potsdamer Street, Ste B223
Tallahassee, FL  32310

Contact:  Tarik Dickens, dickens@eng.famu.fsu.edu

The most diverse college of engineering and the only joint college in the nation! We bring innovative solutions to real-world challenges with world-class researchers and a vibrant student community. Offering MS and PhD degrees in biomedical engineering (BME), the FAMU-FSU Department of Chemical & Biomedical Engineering (CBE) pursues research in biomaterials & nanotechnology, bioimaging, and cell & tissue engineering. As
part of a joint engineering college between Florida A&M and Florida State, CBE draws upon resources at both universities as well as the National High Magnetic Field Laboratory to provide unique BME opportunities. With the initiation of a new BS degree and building upon recent CBE external funding exceeding $10M, the BME program is expanding as we recruit motivated graduate students at all levels (starting PhD stipend of $28,000).

**Table 33**

**Georgia State University**
255 Southerland Terrace NE  
Unit 208  
Atlanta, GA  30307  

**Contacts:** Curtis Byrd, curtisbyrd@gmail.com  
Rihana Mason, rihana@gsu.edu  

Georgia State University (GSU) located in metro Atlanta, GA, with more than 53,000 students, is a national leader in graduating students from diverse backgrounds. *Diverse Issues in Higher Education* ranks GSU as the #1 public or nonprofit university in Georgia to confer undergraduate and graduate degrees to African-American, Asian and Latinx students. With six campuses, GSU provides students a rich learning environment offering a unique campus experience, and culture based on ambition, hard work, dedication and perseverance. The Office of the Provost has a commitment to faculty excellence, and recently developed the Commission for the Next Generation of Faculty with the charge of becoming a leader in faculty diversity and retention. Further, the Provost’s office established GSU’s first Graduate School, which provides services to graduate faculty and students in over 150 doctoral and master’s degree programs. We are excited to attend the 2020 Emerging Researchers National Conference, and discuss our faculty, post-doctoral, graduate and summer research opportunities specifically in life and physical sciences, computer sciences, mathematics and statistics, social and behavioral sciences, neurosciences, as well as many others offered at GSU. Visit our website at www.gsu.edu.

**Table 46**

**Georgia Tech - BioEngineering Graduate Program - GT**
315 Ferst Drive NW  
Atlanta, GA  30332  

**Contacts:** Laura Paige, laura.paige@bioengineering.gatech.edu  
Jacob Misch, mischjp@gatech.edu  

The Georgia Tech Interdisciplinary BioEngineering Graduate Program was established in 1992. It is a flexible, integrative and individualized degree program that enforces depth and breadth in coursework and solid bioengineering research experience. The mission is to educate students and advance research that integrates engineering principles with the life sciences to improve health, the environment and engineering applications.

**Table 35**

**Georgia Tech Research Institute**  
430 10th Street, NW  
Atlanta, GA  30332  

**Contact:** Brittney Odoi, brittney.odoi@gtri.gatech.edu  

The Georgia Tech Research Institute (GTRI) is a highly-regarded applied research and development organization. Each day, GTRI’s science and engineering expertise is used to solve some of the toughest problems facing government and industry across the nation and around the globe. GTRI relies on a diverse workforce to become the world’s pre-eminent applied research and development organization. It takes all of us.

**Table 52**

**Harvard School of Engineering Applied Science**  
29 Oxford Street  
Pierce Hall Room 185  
Cambridge, MA  02138  

**Contact:** Kathryn Hollar, hollar@seas.harvard.edu  

At the Harvard John A. Paulson School of Engineering and Applied Sciences (SEAS), we work within and beyond the disciplines of engineering and foundational science to address the most pressing issues of our time. SEAS has no departments; departments imply boundaries, even walls. Our approach to teaching and research is, by design, highly interdisciplinary. We collaborate across academic areas at SEAS and the larger university, and with colleagues in academia, industry, government and public service organizations beyond Harvard. This commitment to collaboration, and our community’s manageable scale, enable our undergraduate and graduate students, faculty, and researchers to advance knowledge, make groundbreaking discoveries, and develop technologies, products, and ideas that have the potential to improve lives the world over. We are an inclusive community of dedicated problem-solvers who hold ourselves - and one another - to the highest academic and professional standards. We believe that we can achieve the best teaching, learning, and research outcomes when we invite in individuals from diverse perspectives, backgrounds, and experiences.

**Table 7**

**Indiana University, University Graduate School**  
Wells Library  
1320 E. 10th St. Room E546  
Bloomington, IN  47405  

**Contact:** Bianca Evans, biaevans@iu.edu
The mission of the University Graduate School is to promote and support excellence in graduate education for individual students, faculty, departments, and the university as a whole. In accomplishing this mission, the University Graduate School values excellence, integrity, collaboration, efficiency, innovation, and inclusiveness in all that it does. These values are central to the school’s role in encouraging a creative environment for scholarship, research, teaching, and learning. The University Graduate School is a recognized leader in developing new concepts and best practices for graduate education.

**Table 60**

*Krell Institute*

**Computational Science Graduate Fellowship**

1609 Golden Aspen Drive Suite 101

Suite 101

Ames, IA 50010

**Contact:** Lindsey Eilts, leilts@krellinst.org

The Krell Institute manages the Department of Energy Computational Science Graduate Fellowship (DOE CSGF). The fellowship provides up to four years of support for students pursuing doctoral degrees in fields that use high-performance computing to solve problems in science, engineering, applied mathematics, statistics and computer science. Benefits include payment of full tuition and required fees, a $37,000 yearly stipend, and a 12-week research practicum.

**Table 38**

*Louisiana State University*

**College of Science**

124 Hatcher Hall

Baton Rouge, LA 70810

**Contact:** Zakiya Wilson-Kennedy, zwilson@lsu.edu

The Louisiana State University (LSU) College of Science is the place for students driven to explore. Whether they are among the thousands of LSU students fulfilling their math and science course requirements in our classrooms and laboratories or one of our more than 2,000 undergraduate majors pursuing a College of Science degree, we are committed to providing the highest quality math and science education to all. The College of Science is one of nine senior colleges at LSU, a nationally designated land-grant, sea-grant, and space-grant university. The college is the primary scientific intellectual resource for Louisiana and a leader in the nation, offering the highest quality education and programs to create and disseminate knowledge through teaching, research and discovery. We believe that a culture that values collaboration, communication and diverse perspectives is the key to blazing new trails in science and math. That is why we seek to bring new research partners to the table and strive to grow a bigger audience for our work through better communication and outreach to non-scientists. It is why we are leading the way in building a more inclusive academy. In the LSU College of Science, you will find visionaries from all backgrounds who know that the most valuable discoveries come from creative places and unexpected partnerships. Our supportive community works together to help you imagine, pursue and accomplish the ways that you can apply science and math to answer the questions that matter to you. Your question next. science.lsu.edu | lsu.edu/yourquestionnext | lsuscienceblog.com

**Table 28**

*Massachusetts Institute of Technology (MIT)*

**Department of Biology**

31 Ames Street

68-270A

Cambridge, MA 02142

**Contact:** Mandana Sassanfar, mandana@mit.edu

The Department of Biology has over 70 faculty, 200 graduate students and 300 post-docs from various cultural, educational and scientific backgrounds. The PhD program covers many research areas from cancer and neurobiology to stem cell biology, genomics and biophysics. Students receive training in research, problem solving, communication and teaching skills necessary to succeed in both academic and non-academic careers. Teamwork, creativity, independence, and mentoring are emphasized. https://biology.mit.edu/outreach/

The Research Scholars Program in the Department of Brain and Cognitive Sciences (BCS) is a prestigious two-year funded non-degree post-baccalaureate program for outstanding recent college graduates who plan to pursue a research career in neuroscience, cognitive neuroscience, computational neuroscience or neuroengineering. This program is specifically designed to provide individuals from under-represented minority groups in a STEM field, first-generation college students, individual students with disabilities or veterans the opportunity to take courses at MIT, conduct supervised research in any BCS lab of their choice, and immerse themselves in the MIT culture and its academic rigor, while gaining the knowledge and experience necessary to become competitive PhD applicants and successful graduate students. https://bcs.mit.edu/diversity

**Table 23**

*Massachusetts Institute of Technology (MIT)*

**Office of Graduate Education**

77 Massachusetts Avenue

35-332

Cambridge, MA 02139

**Contact:** Noelle Wakefield, odge_di@mit.edu
Exhibitor Descriptions

The Office of Graduate Education supports and serves individual graduate students, programs, and schools in order to make graduate education at MIT empowering, exciting, holistic, and transformative. We foster academic excellence and quality of life for MIT’s community of graduate students. MIT, located in Cambridge, Massachusetts, offers 46 graduate programs distributed among 5 academic schools.

Table 17
Michigan State University
Chittenden Hall
466 W. Circle Drive
Room 130 E
East Lansing, MI 48824

Contacts:  Steven Thomas, deshawn@msu.edu
Brandon Latorre, brandonlatorre@gmail.com

We are accepting application for undergraduate admission, graduate school, professional school and summer internships from students interested in the science, technology, engineering and mathematics fields as well as the social and behavioral sciences (sociology, psychology, linguistics, community sustainability, communication, anthropology, etc). Post-doctoral and post-baccalaureate opportunities are also available in various departments.

Table 34
Morehouse College
830 Westview Drive, S.W.
Atlanta, GA 30314

Contact:  Lycurgus Muldrow, lycurgus.muldrow@morehouse.edu

Morehouse College is committed to training leaders who will change their communities, the nation and the world. The HBCU STEM Undergraduate Success (STEM-US) Research Center at Morehouse was created as a national hub to further the success of HBCUs in STEM education by examining and promoting the identity and multi-level societal benefits of HBCUs. The STEM-US Center trains undergraduates, graduate students, postdocs, and faculty to understand and utilize a theoretical model that addresses the psychosocial behaviors and attitudes that increase resilience, retention and success of African-American students using convergence and community-based participatory research. In collaboration with the Academic Pipeline Project, the STEM-US Center examines best practices of STEM pathway initiatives at HBCUs. Best practices are gathered using the Academic Pipeline Project’s THRIVE index (Type, History, Research, Inclusion/Identity, Voice and Expectation). An interactive website illustrates the THRIVE index and best practices of URM Academic Pipeline Programs. At the ERN Conference, participants can preview the website and sign up for its launch in 2020. Directors of pipeline initiatives nationwide (i.e., HBCU, HSI, MSI, PWI, and TCU) will have the opportunity to sign up to have their program(s) listed on the national database. Learn more about the STEM-US Center at http://stemuscenter.org/ and the Academic Pipeline Project at www.academicpipelineproject.com.

Table 39
National Institute of Justice (NIJ)
700 N. Frederick Avenue
Gaithersburg, MD 20879

Contact:  Tammy Sando, michael.l.lambert@leidos.com

The mission of NIJ is to improve knowledge and understanding of crime and justice issues through science. NIJ provides objective and independent knowledge and tools to reduce crime and advance justice, particularly at the state and local levels.

Table 36
NC Central University Graduate School
1801 Fayetteville Street
Taylor Education Building
Room 123
Durham, NC 27707

Contacts:  Sabrina Butler, sbutler8@nccu.edu
Sherie Royster, sroyst17@nccu.edu

North Carolina Central University’s (NCCU) School of Graduate Studies has developed graduate programs with diversity and variety of interests in mind. It aims to develop independent study, originality, and competence in research and/or in the application of critical thinking to professional problems. Graduate and professional degrees are offered and conferred through the College of Arts and Sciences, College of Behavioral and Social Sciences, and the Schools of Business, Education, Law, and Library and Information Sciences. The School of Business and the School of Library and Information Sciences offer joint degree programs with the School of Law: Juris Doctor/Master of Business Administration and Juris Doctor/ Master of Library Science. The School of Business and the School...
of Library and Information Sciences also offer a joint degree with each other. Several teacher licensure programs are offered through the School of Education. The PhD degree in Integrated Biosciences is offered through the School of Graduate Studies and the College of Arts and Sciences.

**Table 51**  
**Norfolk State University**  
700 Park Avenue  
Norfolk, VA 23504  

Contacts: Ramesh Govindarajan, gtramesh@nsu.edu  
Sam Sun, ssun@nsu.edu

Academic Programs: Norfolk State University offers two graduate programs in the Interdisciplinary field of materials for advanced technologies. The Ph.D. in Materials Science and Engineering program prepares students for careers in industrial, federal or private research laboratories, and academia. The program transitions students from physical sciences, engineering, and related fields into the discipline of materials science and engineering while broadening their professional opportunities. The M.S. in Materials Science program provides students with analytical and technical skills and research experience necessary for doctoral programs. Graduates are also prepared for professional jobs involving materials science and engineering principles.

Opportunities for Students: Graduate students can work on projects with external research organizations including national laboratories, industries and universities. Among our partners are NASA Langley Research Center and Thomas Jefferson National Laboratories. Students regularly attend national and international conferences where they present their research results.

Research laboratories include:
- MiNaC Class 100/1000 Cleanroom
- NMR and ESR Labs
- Thin Film Lab
- Crystal Physics and Quantum Electronic Lab
- Materials Characterization Lab
- Laser Spectroscopy Lab
- Polymer Synthesis and Characterization Lab
- Biomaterials and Toxicology Lab
- Neuro Engineering and Nanoelectronics Lab
- Shared facility (TEM, AFM, SEM, XRD, E-Beam, etc)

**Table 1**  
**North Carolina State University**  
The Graduate School  
Campus Box 7102  
Raleigh, NC 27695  

Contact: David Shafer, dmshafer@ncsu.edu

In more than 120 years of offering graduate programs, NC State has built a roster of over 160 master’s and doctoral programs in agriculture and life sciences; design; education; engineering; natural resources; humanities and social sciences; management; mathematical, statistical, biological and earth-system sciences; textiles and veterinary medicine. NC State boasts a talented graduate student body of more than 10,000 degree-seeking master’s and doctoral students who reflect a richness and diversity that energize this community of scholars. They come from all 50 states and from over 100 countries. On average, we confer over 3,000 graduate degrees each year. Our location in North Carolina’s Research Triangle means the best of industry-government-university partnerships. Our quarter century-old Centennial Campus reflects the university model of the future, where young investigators collaborate with faculty mentors, private companies, and public agencies to solve real-world problems.

**Table 29**  
**Northwestern University**  
The Graduate School  
633 Clark Street, 1-502  
Evanston, IL 60208  

Contact: Rashaad Barnett, tgdiversity@northwestern.edu

Northwestern University comprises a vibrant downtown Chicago campus and a beautiful lakeshore location 14 miles north in Evanston, IL. The Graduate School offers 110 Graduate Study Programs in STEM, Humanities, and Social Behavioral Sciences. Dedicated to diversity and inclusion, we offer a wide range of support and resources for all of our graduate students.

**Table 26**  
**NYU Tandon School of Engineering**  
6 MetroTech Center  
Brooklyn, NY 11201  

Contact: Andrew Rapin, andrew.rapin@nyu.edu

Located in New York City’s Brooklyn Tech Triangle, NYU Tandon School of Engineering is a major player in New York’s ongoing tech renaissance, where students can connect to thousands of creative and leading organizations in this epicenter of business and technology. Graduate programs are in the fields of mechanical, civil, urban, industrial, electrical, computer,
chemical, biomedical and financial engineering alongside programs in computer science, management of technology, cybersecurity, and integrated digital media. Our primary focus remains to produce highly prepared and desirable graduates, which has led us to be one of the top ranked schools in the nation with regards to graduate employability, salary potential, and return on investment.

Table 54
OPM - Presidential Management Fellows (PMF) Program
U.S. Office of Personnel Management
1900 E Street, NW
Washington, DC 20415

Contacts: Becca Wadness, Rebecca.Wadness@opm.gov
Brandon Jacobsen, Brandon.Jacobsen@opm.gov

The Presidential Management Fellows (PMF) Program is the Federal Government’s flagship leadership development program for early career graduate degree holders. The PMF Program was established by Executive Order in 1977 to attract to the Federal service outstanding men and women from a variety of backgrounds and academic disciplines who have a clear interest in the leadership and management of public policies and programs. By drawing graduate students from diverse social, cultural, and educational backgrounds, the PMF Program provides a continuing source of trained men and women to meet the future challenges of public service.

Table 10
Penn State College of Engineering
112 Hammond Building
University Park, PA 16802

Contact: Erin Hostetler, ErinH@psu.edu

The Penn State College of Engineering Center for Engineering Outreach and Inclusion (CEOI) assists all students in the pursuit of their undergraduate and graduate degrees. Founded to serve students from groups underrepresented in engineering, the center has grown to assist all students, faculty, and staff in the College with their engagement in equity and inclusion through evidence-based best practices and programs. Our support system of faculty and staff encourages current students to become allies and leaders in advancing equity and inclusion. CEOI pays particular attention to increasing the participation of women and multicultural students in the pursuit of their undergraduate and graduate degrees at Penn State through inclusive student retention programs, recruitment efforts, scholarships, and professional development opportunities.

Table 8
Penn State University - Applied Research Laboratory (ARL)
225 Science Park Road
State College, PA 16803

Contact: Dara Sanoubane, despo@arl.psu.edu

ARL at Penn State is an integral part of one of the leading research universities in the nation and serves as a University Center of Excellence in Defense science, systems, and technologies with a focus in naval missions and related areas. As a DOD-designated, U.S. Navy UARC (University Affiliated Research Center), ARL maintains a long-term strategic relationship with the U.S. Navy and provides support for the other services. ARL provides science, systems, and technology for national security, economic competitiveness, and quality of life through education, scientific discovery, technology demonstration, and transition to application.

Table 9
Pennsylvania State University Graduate School
111D Kern Graduate Building
University Park, PA 16802

Contacts: Stephanie Danette Preston, sdp163@psu.edu
Wayne Gersie, wmg109@arl.psu.edu

The Graduate School at Penn State is one of the largest in the nation with more than 14,000 graduate students enrolled at the University Park and Harrisburg campuses and at Penn State Erie, The Behrend College, Penn State Great Valley, and College of Medicine at The Milton S. Hershey Medical Center. The Office of Graduate Educational Equity Programs leads the Graduate School’s efforts to foster diversity and to provide a welcoming climate for both prospective and current graduate students of underrepresented groups. The office designs and implements mentoring programs; recruitment programs; professional development and retention programs; and conferences, seminars, workshops, and lectures. The office also leads the Summer Research Opportunities Program at Penn State and the Ronald E. McNair Post-Baccalaureate Achievement Program. Both programs provide connections with highly talented undergraduate students who are interested in attending graduate school.

Table 14
Rensselaer Polytechnic Institute
Graduate Admissions Office
110 8th Street
Troy, NY New York 12180

Contact: Jarron Decker, decke3@rpi.edu

Founded in 1824, Rensselaer Polytechnic Institute is the oldest technological research university in the United States. Sitting on
a hill overlooking Troy NY, a revitalized city only 2.5 hours from Manhattan, the lush campus offers a welcoming and collaborative academic environment to support the learning and research of over 1,000 graduate students. Rensselaer offers a wide range of graduate programs across 5 schools: Architecture; Engineering; Science; Lally School of Management; and Humanities, Arts and Social Sciences. The interdisciplinary research culture at Rensselaer provides students an experience across multiple disciplines and sectors while exposing them to multiple perspectives as they are trained to tackle the global problems facing humanity in the 21st century.

Table 40
Rice University
6100 Main Street
Houston, TX 77005

Contact: Theresa Chatman, tlc@rice.edu

Rice University is the premier private university in the southcentral US; we have some of the strongest doctoral programs in the nation. As the intellectual hub of one of the most ethnically diverse cities in the world, Rice offers an ideal community for diverse scholars. It provides doctoral students with financial support in the form of generous stipends, tuition waivers, health insurance subsidies, and more. As part of our programs to enhance the student experience, we also hold mentoring, professional development, and community-building activities for our doctoral scholars. We will provide you with robust mentoring in many areas to ensure your future success! Please stop by our booth to learn more about our offerings, including research opportunities with our National Science Foundation Nanotechnology Enabled Water Treatment (NEWT) Engineering Research Center (newtcenter.org). NEWT offers many of the benefits listed here, and you are also able to join any of our four universities: Rice, Arizona State University, Yale University, and the University of Texas at El Paso. For more information on Rice or NEWT, please contact Theresa Chatman, Diversity Director by email at tlc@rice.edu or by phone at 713-348-5180.

Table 57
Rush University
Graduate College
600 S. Paulina Street, Suite 438
Chicago, IL 60612

Contacts: Marenda Wilson-Pham, marenda_wilson-pham@rush.edu
Antonio Abeyta, antonio_abeyta@rush.edu

Rush University is the academic enterprise of the Rush University Medical Center (RUMC). RUMC is an Illinois nonprofit, 501(c)(3) corporation that has a tripartite educational, research and clinical mission. Each component of the mission of RUMC is co-equal in importance, and this tripartite mission allows academics and research to be fully integrated with clinical practice, providing an educational experience built around a teacher-practitioner model in order to train the next generation of health care professionals and providers while promoting a research environment that goes hand-in-hand with clinical excellence. Located in the heart of the Illinois Medical District, RUMC offers more than 40 degree and certificate programs across medicine, nursing, allied health and biomedical research; more than 60 postgraduate training programs for medical residents and fellows; and continuing education options.

Table 45
Southern University and A&M College
Jesse N Stone Drive
Pinchback Building
Baton Rouge, LA 70813

Contact: Patrick Mensah, patrick_mensah@subr.edu

Southern University and A&M College is a comprehensive institution offering four-year, graduate, professional, and doctorate degree programs, fully accredited by the Southern Association of Colleges and Schools (SACS). The University today is part of the only historically black Land Grant university system in the United States.

Table 77
Stony Brook University
2401 Computer Science
Stony Brook, NY 11794-4422

Contact: Rosalia Davi, rosalia.davi@stonybrook.edu

Stony Brook University is one of America’s most dynamic public universities, a center of academic excellence and an internationally recognized research institution that is changing the world. After more than 60 years of existence, it is ranked among the top 100 universities in the nation and the top 40 public universities. Established in 2002, the Center for Inclusive Education (CIE) at Stony Brook has been committed to advancing diversity in graduate education, academia, and the scientific workforce. The CIE works to recruit, retain, and graduate underrepresented minority and otherwise disadvantaged scholars, as well as those scholars who advance the mission of increasing diversity of their respective fields. The CIE promotes professional development and a strong sense of community through core activities including the Research Cafe series, Topic-Based Lunches, Real Talk discussion groups, Invited Speakers, and the Community of Student Mentors program.
Tennessee State University
3500 John A. Merritt Blvd.
Nashville, TN 37209

Contact: Frances Williams, frwilliams@tnstate.edu

Tennessee State University (TSU) is a comprehensive, urban, land-grant university, founded in 1912. It is a world-class university known for academic excellence, incredible students, inspiring faculty, exceptional value and an amazing campus and community. The 450-acre campus is located in Nashville, the state capitol of Tennessee. The TSU College of Engineering offers B.S. degrees in Architectural, Civil, Electrical, and Mechanical Engineering, with several concentrations such as manufacturing, environmental, and computer engineering. The College also awards B.S. degrees in Computer Science and Applied Industrial Technology. On the graduate level, the College provides the Master of Engineering degree with concentrations in Civil, Electrical, Manufacturing, and Mechanical Engineering, the M.S. degree in Computer Science, the M.S. degree in Computer and Information Systems Engineering, and the Ph.D. degree in Engineering and Computational Sciences. The College has various scholarship and fellowship opportunities for students interested in undergraduate or graduate degrees.

Texas A&M University
Graduate and Professional Studies
112 Jack K. Williams Admin Bldg
1113 TAMU
College Station, TX 77843-1113

Contact: LaRhesa Johnson, lrjohnson@tamu.edu

Texas A&M University Office of Graduate and Professional Studies (OGAPS) is a global leader in graduate education, committed to the pursuit of knowledge and the power of intellect. Texas A&M offers over 250 graduate and professional degree programs in 16 colleges and schools. The Office of Graduate and Professional Studies is committed to a diverse campus climate, enhancement of the graduate experience and the development of all students as global citizens.

UCLA Graduate Programs In Bioscience
300 Geffen Hall
Los Angeles, CA 90095

Contact: Diana Azurdia, dazurdia@mednet.ucla.edu

Graduate Programs in Bioscience is a consortium of 10 home areas and their affiliated Ph.D. programs, organized to provide the best possible research training and professional development for graduate students pursuing PhDs in the life and biomedical sciences. These Home Areas include: Biochemistry, Biophysics & Structural Biology, Bioinformatics, Cell & Developmental Biology, Gene Regulation, Genetics & Genomics, Immunity, Microbes & Molecular Pathogenesis, Molecular Pharmacology, Molecular, Cellular & Integrative Physiology, Neuroscience, and Physics & Biology in Medicine. These academic "homes" are designed by faculty to promote and support individualized training and career-building opportunities for students in the home area. This framework provides specialized, in-depth educational programs while maintaining flexibility for students to explore frontiers beyond any single home area. Likewise, faculty are able to contribute in multiple home areas according to their research interests. Providing students with a combination of deep immersion in a field and the opportunity to explore new horizons creates limitless and unique educational possibilities. Each home area is affiliated with a degree-granting PhD program, a union that sets the specific courses, advising opportunities, and research, scholarship, and examination requirements.

University of Alabama
712 Capstone Drive
Tuscaloosa, AL 35401

Contact: Roger Sidje, roger.b.sidje@ua.edu

The University of Alabama (UA), located in a vibrant, energetic college community in the center of Tuscaloosa, AL, is one of the nation’s premier public universities offering a variety of career tracks and bachelor’s, master’s, and doctoral degrees in 200+ fields of study to 38,000+ students. UA’s 1,000+ acres of tree-lined pathways and state-of-the-art facilities are a source of inspiration for students, faculty, and staff. Founded in 1831 as Alabama’s first public college, UA is dedicated to excellence in teaching, research, and service. It has consistently ranked among the nation’s top 50 public universities by U.S. News & World Report for more than a decade, and is now recognized as having a Very High Research Activity (R1) status in the Carnegie Classification of Institutions of Higher Education. UA has 1,800+ faculty with 26 receiving the NSF’s CAREER Award, the nation’s most prestigious recognition of top-performing young scientists, in disciplines such as nano-science, engineering, biological sciences and many others. As part of the UA family, you will enjoy outstanding benefits and play an integral role in contributing to the atmosphere, diverse culture, and traditions that make The University of Alabama the place ‘where legends are made’. 
Table 56
University of Alabama at Birmingham
1825 University Blvd
Birmingham, AL  35294-2182

Contact:  Randy Seay, rseay@uab.edu

The University of Alabama at Birmingham (UAB) is a research university and academic medical center that encompasses 112 city blocks and has a student enrollment of more than 24,000. UAB is home to a large graduate school, a world-renowned health care complex, and more than 100 different research centers focusing on such diverse issues as cancer prevention, personalized medicine, biodefense, and emerging infectious diseases.  UAB includes the School of Medicine (MD, MD-PHD, MD-MPH, MD-MBA), School of Public Health (Dual Degree MPH Programs, MPH, MSPH, DrPH, PhD), School of Optometry (Vision Sciences PhD, OD), School of Arts and Sciences (MA, MS, PHD), and Graduate Biomedical Sciences (PHD).  We invite you to join more than 4,400 graduate students who are enrolled in UAB’s 40 doctoral programs and 51 master’s programs.  Many of these programs unite different disciplines and cross departmental and school lines, illustrating the strong interdisciplinary character of the university.  Become part of our unique and select group of students training to become tomorrow’s leaders in science and medicine.  Visit us at www.uab.edu/graduate and www.uab.edu/medicine

Table 32
University of California, Berkeley
Product Development Program
410B Latimer Hall
Berkeley, CA  94720

Contact:  Keith Last Alexander, irisoacosta@berkeley.edu

Since 2006, the Department of Chemical and Biomolecular Engineering at the University of California, Berkeley has offered a new and innovative Professional Science Master’s Degree called the Product Development Program (PDP).  The PDP is a graduate-level degree program whose central aim is to fill the unmet need at national and international levels for graduates of chemical engineering and related chemical sciences disciplines who have knowledge and field experience in the complex process of transforming technical innovations into commercially successful products.  In the space of one academic year (9 months), PDP graduates will gain exposure to real-world product development practices in a range of chemical process-intensive industries including biotechnology, microelectronics, nanoscience, alternative energy, consumer products, and new venture development.  The PDP does not require a research thesis, but students will find completing the extensive coursework and field study assignment challenging.  Students who successfully complete the program’s graduation requirements will be awarded a Master of Science degree in Chemical Engineering with a concentration in product development.  A limited number of full-tuition scholarships are available.  The deadline for applications from ERN Conference in STEM attendees has been extended to March 6, 2020.  For more information, contact Iris Acosta (irisoacosta@berkeley.edu) or visit https://chemistry.berkeley.edu/grad/cbe/pd.

Table 24
University of California, San Diego
9500 Gilman Drive
La Jolla, CA  92093-0003

Contact:  Angeline Yang, avyang@ucsd.edu

The University of California San Diego is recognized as one of the top 15 research universities worldwide.  We have a culture of collaboration which sparks discoveries that advance society and drives economic impact.  Everything we do is dedicated to ensuring our students have the opportunity to become changemakers, equipped with the multidisciplinary tools needed to accelerate answers to our world’s most pressing issues.  At the University of California San Diego, diversity is a core component of excellence that further enhances our quality and achievement.  We seek a diverse graduate student body to ensure that all of our students gain the educational benefits that result from being exposed to a broad spectrum of ideas and perspectives.  These include the variety of personal experiences, values, and worldviews that arise from differences of culture and circumstance.  Such differences include race, ethnicity, gender, age, religion, language, abilities/disabilities, sexual orientation, socioeconomic status, geographic region and more.  We wish to broaden and deepen both the educational experience and the scholarly environment, as students and faculty learn to interact effectively with each other, preparing them to participate in an increasingly complex and pluralistic society.  We also want all of our students to contribute to the campus community in a manner that enhances campus diversity and inclusiveness, consistent with the University of California Principles of Community.  Learn more about the University of California San Diego’s academic and professional graduate degree programs at https://grad.ucsd.edu.

Table 49
University of Chicago Biosciences
924 E 57th Street
Chicago, IL  60637

Contacts:  Nancy Schwartz, nbs0@uchicago.edu
Donald Rodriguez, kbarkey@uchicago.edu

UChicago Biosciences offers 18 programs designed to lead to the PhD; the program in Public Health Sciences offers a master’s
degree for clinical professionals in addition to the PhD. We also offer combined MD/PhD degrees. University of Chicago graduate students and postdoctoral trainees in the biosciences break new ground every day. We have a long history of research excellence and notable achievements among our alumni and faculty. At UChicago, you benefit from immersion in one of the world’s preeminent research universities, and our community of scholars benefits from you--emerging scientists with bright minds, unbridled enthusiasm, and plenty of fresh ideas. As an international intellectual destination, the University of Chicago draws students, researchers, and faculty to exchange ideas freely, challenging the status quo and one another to push the boundaries of their fields, leading to world-changing discoveries and insights. The University’s hallmark emphasis on interdisciplinary research and collaboration, coupled with access to the latest technology and to three major affiliated laboratories, offers a graduate experience in the biosciences unavailable anywhere else.

Table 15
University of Florida
PO Box 115500
123 Grinter Hall
Gainesville, FL 32611

Contact: Kishmar Best, kishmarbest@ufl.edu

Ranked in the top 10 of public universities in the United States, the University of Florida (UF) is a leading research institution where more than 12,000 graduate students pursue master, specialist, and doctoral degrees in more than 150 fields of study. Whether it’s a career in academia, business, a specific industry, government or for a non-profit, UF master’s and Ph.D. students are all making a big impact for the Gator Good. At UF, we are a people of purpose. We’re committed to challenging convention and ourselves. We see things not as they are, but as they could be. And we strive for a greater impact: one measured in people helped and lives improved. UF’s home base of Gainesville is an emerging tech hub that offers an attractive mix of affordable living, cross-cultural diversity, outdoor recreation, a vibrant arts scene, entertaining nightlife, and free student public transportation, all within convenient reach of Florida’s coastal beaches, urban centers, and tourist destinations.

Table 16
University of Michigan - College of Pharmacy
428 Church Street
Univ. of Michigan - COP
Ann Arbor, MI 48019

Contact: Cherie Dotson, crdotson@umich.edu

The University of Michigan - College of Pharmacy offers Ph.D. degrees in Medicinal Chemistry, Pharmaceutical Sciences and Clinical Pharmacy. Graduate students in Medicinal Chemistry are trained in research pertaining to drug discovery and drug design while those in Pharmaceutical Sciences are focused on the study of drug transport and drug delivery systems. The Clinical Pharmacy program features tracks in Health Services Research and Precision Pharmacotherapy. Students with interests in obtaining clinical training with regard to the practice of pharmacy are encouraged to consider the PharmD. The University of Michigan - Pharm.D. program provides students with opportunities for patient contact and clinical experience throughout the four years of study. Dual training opportunities are available through the PharmD/PhD, PharmD/MBA and PharmD/MPH programs. Summer experiential opportunities in pharmacy are available through the Pharmacy Scholars Program. Summer research opportunities are available through the Interdisciplinary REU. Contact: Cherie Dotson (crdotson@umich.edu / 734-615-6562) or https://pharmacy.umich.edu.
The University of Michigan Medical School's Office of Graduate & Postdoctoral Studies is home to the graduate umbrella Program in Biomedical Sciences (PIBS), the Postbac Research Education Program (PREP), the Postbac PreMed Program (MEDPREP), and the Cancer Research Summer Internship Program (CaRSIP).

Table 42

University of Minnesota Law School
MS Patent Law Program
229 19th Avenue South
Minneapolis, MN 55455

Contact: Keaton Krueger, patlaw@umn.edu

With a Master of Science in Patent Law, students with scientific and technical backgrounds leverage that knowledge to advance career opportunities in the booming area of patent law. This one-year professional master’s degree program is aimed at students who want to work in cutting-edge technology, helping inventors and corporations to bring innovations to market.

Table 21

University of Missouri
1201 Rollins Street
Columbia, MO 65211

Contact: Debbie Allen, allendebra@missouri.edu

The joy of discovery has propelled the University of Missouri (MU) to one of the top-ranked Life Sciences research institutions in the 21st century. More than 20 Ph.D. programs emphasize interdisciplinary collaboration and innovation. We are a major research campus with shared resources from Medicine, Engineering, Agriculture, Veterinary Medicine, Health Professions, Journalism, Business and Law. Extensive research core facilities and a nuclear reactor bolster the research resources at MU. Committed to graduate student success, we promote strong mentorship connections and career-directed resources. We offer a comprehensive support package including stipend, paid tuition, health insurance and travel funding. Columbia, Missouri is an excellent, diverse and affordable city with impressive amenities, located centrally between St. Louis and Kansas City. Learn More: https://gradschool.missouri.edu/degree-programs

Table 50

University of Michigan Medical School
1135 Catherine Street
Ann Arbor, MI 48109

Contact: Jim Musgrave, jdmusg@umich.edu

The University of Michigan Medical School’s Office of Graduate & Postdoctoral Studies is home to the graduate umbrella Program in Biomedical Sciences (PIBS), the Postbac Research Education Program (PREP), the Postbac PreMed Program (MEDPREP), and the Cancer Research Summer Internship Program (CaRSIP).

Table 53

University of Nebraska-Lincoln
1100 Seaton Hall
Lincoln, NE 68588-0619

Contact: Kurt Mueller, kurt.mueller@unl.edu

The University of Nebraska is home to a diverse community of scholars, teachers, and creators who are leading conversations in their fields and exchanging world-changing ideas. With 71 doctoral programs, 72 master’s programs, and a focus on team and interdisciplinary research, students at Nebraska are exploring a vibrant array of fields across science, humanities, social science, engineering, and the arts. Students come to Nebraska from all 50 states and around the world to access the faculty, facilities and opportunities of a Big Ten university on a campus that feels like home. The university is dedicated to developing students beyond their academic disciplines and provides programs and services to ensure success. At the University of Nebraska, the measure of success is human opportunity, and the university is committed to our students and coming together to create new knowledge, build on each other’s experiences, and forge a better future.

Table 71

University of Nebraska Medical Center
985840 Nebraska Medical Center
Omaha, NE 68198

Contact: Kimberly Rothgeb, krothgeb@umc.edu

The Interdisciplinary Graduate Program in Biomedical Sciences (IGPBS) PhD program consists of seven interdisciplinary doctoral programs, with over 200 participating research faculty, from 32 basic science and clinical departments. With this structure, each of the seven training programs provides students with a large number of potential research laboratories and research project options, along with strong multidisciplinary training within their area of interest.

Table 58

University of North Carolina at Charlotte
College of Liberal Arts and Sciences
9201 University City Boulevard
Charlotte, NC 28223

Contact: Banita Brown, bwbrown@uncc.edu

The University of North Carolina at Charlotte is North Carolina’s fastest-growing and only urban research university. It leverages its location in the state’s largest city to offer internationally competitive programs of research and creative activity, exemplary undergraduate, graduate and professional programs, and a focused set of community engagement initiatives. Upon
Table 5
University of North Texas
1155 Union Circle
Denton, TX 76203

Contact: Heather Miller, heather.miller@unt.edu

The University of North Texas (UNT) is situated in the Dallas/Fort Worth Metroplex. Serving over 39,000 students, UNT is known both for its world famous art programs and our Carnegie Tier 1 Research University status. The College of Science offers competitive funding to graduate students.

Table 61
University of Pennsylvania Center for Engineering MechanoBiology
3231 Walnut Street
Philadelphia, PA 19104

Contact: Annie Jeong, annjeong@seas.upenn.edu

The Center for Engineering MechanoBiology (CEMB) is a multi-institutional Science and Technology Center funded by NSF to advance the study of mechanical forces in molecules, cells, and tissues in plants and animals. We offer summer research opportunities for undergraduates and multidisciplinary graduate training in biology, engineering, physics, and more.

Table 41
University of South Florida
College of Engineering
4202 E. Fowler Avenue, ENG 030
Tampa, FL 33620

Contact: Bernard Batson, bbatson@usf.edu

The University of South Florida (USF) is a preeminent state research university dedicated to student success with an annual budget of $1.6 billion and over $450 million in research funding. USF ranked 7th in the nation among public universities and 16th world-wide for granted U.S. patents among all universities according to the Intellectual Property Owners Association/NAI (2018). USF is one of eight universities awarded a Sloan University Center of Exemplary Mentoring (UCEM) for its leadership in graduate STEM student success. Signature research initiatives include Water & Urban Sustainability, Brain & Spinal Cord, Heart, Data Science, Alternative Energy Systems, Cancer, Cybersecurity, Advanced Materials, Smart Cities and Urban Transportation, Genomics, Health of the Oceans & Climate Change. Fellowships, assistantships, and professional development programming are available for students sponsored by the Sloan UCEM, NSF Florida-Georgia Louis Stokes Alliance for Minority Participation Bridge to the Doctorate Program, McKnight Doctoral Fellowship Program, Office of Research and Innovation, and Office of Graduate Studies. Summer undergraduate research opportunities are available in Computer Science and Engineering, Engineering, Applied Physics, Biomedical Sciences, Applied Marine Sciences and Oceanography. Our graduate students and alumni have received prestigious fellowships, including NSF GRFP, Ford, Fulbright, AAAS, National Research Council, and other national awards.

Table 19
University of Southern California
1975 Zonal Avenue
Los Angeles, CA 90089-9031

Contacts: Karina Recinos, karina.recinos@med.usc.edu
            Domonique Walker, domonique.walker@med.usc.edu

The Programs in Biomedical and Biological Sciences (PIBBS) is a gateway program into graduate studies at USC, leading to a Ph.D. degree in a broad range of biological and biomedical disciplines.

Table 68
University of Texas MD Anderson Cancer Center
UTHealth Graduate School of Biomedical Sciences
6767 Bertner Avenue
Houston, TX 77030

Contact: Jasmine Wilson-Toliver, Jasmine.N.Wilson-Toliver@uth.tmc.edu

The University of Texas Health Graduate School of Biomedical Sciences is dedicated to the highest level of education and research; its faculty, classrooms, and laboratories are drawn from two major institutions: UTHealth and The University of Texas MD Anderson Cancer Center. In addition to PhDs, the Graduate School offers three Master’s programs that include the oldest genetic counseling program in Texas, and an MD/PhD program and numerous summer research opportunities. Another aspect of our school is our student associations that emphasize our commitment to diversity and professional development of all our students. Although research and scholarship are the primary focus of the graduate experience at MD Anderson UTHealth Graduate School, we believe in the holistic development of our students; there is indeed a place for everyone at our school.
**Table 13**  
**University of the Virgin Islands**  
**Master of Marine and Environmental Science**  
#2 John Brewers Bay  
College of Science and Mathematics  
St. Thomas, VI 00802  

**Contact:** Sophia McKenzie, sophia.mckenzie@uvi.edu

Join the University of the Virgin Islands’ Master of Marine and Environmental Science (MMES) team. Surrounded by turquoise water on Caribbean islands, MMES graduate students work with world-class biologists on internationally significant topics such as coral reef resilience and sustainability, mesophotic reef ecology, terrestrial ecology, reef fish spawning aggregations, movement ecology of animals, Ciguatera fish poisoning, and sea turtle biology in the Center for Marine and Environmental Sciences. Choose adventure; explore tropical islands as we seek new understanding of biodiversity, restore natural resources, and promote environmental sustainability.

**Table 22**  
**UT Health San Antonio**  
7703 Floyd Curl Drive  
MC 7819  
San Antonio, TX 78229  

**Contacts:** Yvonne Valdez, ValdezY3@uthscsa.edu  
Nicquet Blake, blaken@uthscsa.edu

The Graduate School of Biomedical Sciences at UT Health San Antonio offers 18 academic programs in the biomedical sciences. Located in the heart of the South Texas Medical Center, our university is next to 5 medically related institutions, more than 45 clinics, 12 major hospitals, one higher education institution, and countless small practices, offices, and non-medical businesses. As the premier academic research center of the seventh largest city in the country, we conduct interdisciplinary basic and clinical research which helps improve scientific knowledge and advance medical technology.

**Table 30**  
**University of Washington**  
**UW Molecular Engineering & Sciences Institute**  
3946 W Stevens Way NE  
Box 351653  
Seattle, WA 98195-1653  

**Contact:** Paul Neubert, pneubert@uw.edu

The interdisciplinary Ph.D. program in Molecular Engineering (MoE) offers students the opportunity to work with over 130 faculty members from 20 different departments on BioTech and/or CleanTech projects. It provides access to the state-of-the-art Molecular Analysis Facility and paid tuition combined with a highly competitive salary. The MoE PhD provides students the opportunity to customize an engineering degree program relevant to your research interests in clean technology or biotechnology while developing a systemic, rational approach to engineering molecular systems that can be applied in fields as diverse as energy, healthcare, or technology. Students meet nationally and internationally recognized experts in the developing field of molecular engineering, access state-of-the-art facilities and instrumentation for molecular-scale analysis, and distinguish themselves as experts in an interdisciplinary and cutting-edge research area, prepared for a leading career in molecular engineering and sciences. The University of Washington (UW) is ranked 13th globally, and 3rd among U.S. public universities by the Academic Ranking of World Universities. UW receives more federal research dollars than any other public university in the nation, receiving over $1.3 billion in average total research awards over recent years.
Exhibitor Descriptions

Table 20
West Virginia University (WVU)
108 Biomedical Road
PO Box 9104
Morgantown, WV 26506

Contacts: Nicole Beason, Nicole.Beason@hsc.wvu.edu
Lisa Salati, lisalati@hsc.wvu.edu

As West Virginia’s flagship research institution, WVU undertakes scholarly activity to improve the lives of West Virginians and others across the globe. WVU is classified as a Doctoral University-Highest Research Activity (R1) in the Carnegie Classification of Institutions of Higher Education. As a land-grant institution, the faculty, staff and students at WVU commit to creating a diverse and inclusive culture that advances education, healthcare and prosperity for all by providing access and opportunity; by advancing high-impact research; and by leading transformation in West Virginia and the world through local, state and global engagement.

Table 2
Worcester Polytechnic Institute
100 Institute Road
Worcester, MA 01581

Contacts: Michael McGrade, grad@wpi.edu
Adam Powell, acpowell@wpi.edu

Worcester Polytechnic Institute (WPI), one of the nation’s premier science- and engineering-focused universities, was founded in 1865 with the mission of providing an education that balances theory and practice. A dynamic and welcoming graduate community, world-renowned faculty mentors, a culture of collaboration, spectacular research facilities, and close relationships with industry make WPI an outstanding environment for aspiring scientists, engineers, innovators, and entrepreneurs. Here, you will pursue cutting-edge, multidisciplinary research and contribute to breakthroughs that deepen our understanding of the world, engender new lines of inquiry, and meet the technological challenges facing the world today.

Table 76
XSEDE
SURA
1201 New York Avenue, NW, Suite 430
Washington, DC 20005

Contact: John Holly, jholly@sura.org

An NSF-funded project, the Extreme Science and Engineering Discovery Environment (XSEDE) is the most advanced, powerful, and robust collection of integrated digital resources and services in the world. It is a single virtual computing system that scientists can use to interactively share resources, data and expertise. Scientists, engineers, social scientists, and humanities experts around the world—many of them at colleges and universities—use advanced digital resources and services every day. Supercomputers, collections of data, and new tools are critical to the success of those researchers, who use them to make our lives healthier, safer, and better. XSEDE integrates these resources and services, makes them easier to use, and helps more people use them. XSEDE offers advanced computing resources, training, curriculum development, and student opportunities.
10 ways that *Science* Careers can help advance your career

1. Register for a free online account on ScienceCareers.org.
2. Search thousands of job postings and find your perfect job.
3. Sign up to receive e-mail alerts about job postings that match your criteria.
4. Upload your resume into our database and connect with employers.
5. Watch one of our many webinars on different career topics such as job searching, networking and more.
6. Download our career booklets, including “Career Basics”, “Careers Beyond the Bench” and “Developing Your Skills.”
7. Complete an interactive, personalized career plan at “my IDP.”
8. Visit our Employer Profiles to learn more about prospective employers.
9. Research graduate program information and find a program right for you.
10. Read relevant career advice articles from our library of thousands.

Visit ScienceCareers.org today — all resources are free.
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Join the Conversation!