MSI Collaborations (+ Lightning Talks)
CRA Strategic Plan
Agenda
3:30pm Welcome
3:45pm Lightning Talks – Group 1
4:10pm Jeff Forbes/Michelle Rogers, NSF
4:30pm Lightning Talks – Group 2
4:55pm Break (5 min)
5:00pm Comments from R1 MSI Universities
5:30pm Lightning Talks – Group 3
5:50pm Closing and Next Steps
Lightning Talks

Bowie State University
Howard University
Merced College
Morehouse College
Morgan State University

New Mexico Tech
Norfolk State University
North Carolina A&T State University
Northeastern Illinois University
Roosevelt University

Southern University and A&M College
Spelman College
Texas Southern University
University of Hawaii at Hilo
Welcome:
Nancy Amato (UIUC)
CRA Board Chair
Welcome: Kinnis Gosha
Morehouse College
5 Tips for Developing a Strong MSI Collaboration

1. Be open to different types of collaboration
2. Don’t make BPC a last minute afterthought
3. Be mindful of the lack of staff support
4. Consider long term, sustainable collaborations
5. Don’t equate a lack of responsiveness as a lack of interest
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LIGHTNING TALKS
GROUP 1
(MAX 5 MINUTES EACH)
Bowie State University
Howard University
Merced College (video)
Morehouse College
Morgan State University
Agenda

3:30pm Welcome

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5:50pm Closing and Next Steps
Support for CISE Research & Education at Minority-Serving Institutions

Michelle Rogers & Jeff Forbes
National Science Foundation
VITAL ROLE OF MINORITY-SERVING INSTITUTIONS FOR NSF CISE GOALS

• Increase the number and diversity of domestic students receiving postsecondary degrees in CISE disciplines

• Increase the number and proportion of proposals and awards from underserved institutions
PROGRESS TOWARDS BROADENING PARTICIPATION AS MEASURED BY:

1. high school students taking CS courses
2. CISE undergraduate degrees
3. CISE doctoral degrees
4. early-career CISE faculty
CISE BS degrees 1985-2020

UNDERGRAD

CISE BS DEGREES
UNDERGRAD: 
THE VITAL & CHANGING ROLE OF MINORITY SERVING INSTITUTIONS

<table>
<thead>
<tr>
<th>YEAR</th>
<th>CISE BS</th>
<th>BLACK</th>
<th>HBCU</th>
<th>HSI</th>
<th>PWI</th>
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<tbody>
<tr>
<td>1993</td>
<td>22,873</td>
<td>1,982 (8.7%)</td>
<td>43%</td>
<td>9%</td>
<td>48%</td>
</tr>
<tr>
<td>2011</td>
<td>31,863</td>
<td>2,600 (8.2%)</td>
<td>28%</td>
<td>10%</td>
<td>62%</td>
</tr>
<tr>
<td>2020</td>
<td>91,769</td>
<td>6,218 (6.8%)</td>
<td>13%</td>
<td>13%</td>
<td>74%</td>
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<table>
<thead>
<tr>
<th>YEAR</th>
<th>HISPANIC</th>
<th>HBCU</th>
<th>HSI</th>
<th>PWI</th>
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</thead>
<tbody>
<tr>
<td>1993</td>
<td>979 (4.3%)</td>
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<td>62%</td>
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<tr>
<td>2011</td>
<td>2,257 (7.1%)</td>
<td>1%</td>
<td>48%</td>
<td>51%</td>
</tr>
<tr>
<td>2020</td>
<td>9,909 (10.8%)</td>
<td>0%</td>
<td>45%</td>
<td>55%</td>
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</table>
NSF CISE MSI LISTENING SESSIONS

- Goal: CISE BPC Efforts should be inclusive of Minority-Serving Institutions
- To increase MSI attendee awareness about CISE Core Programs, as well as proposal submissions & CISE engagement
- Take steps to enhance engagement of HBCUs, HSIs and Tribal/Native Serving Institutions in NSF CISE Core programs

4 Initial convenings/hosts:
- HBCUs: May 2019, Hampton Univ.
- HSIs: July 2019, NSF CAHSI INCLUDES
- TCUs: Sept 2019, American Indian Science and Engineering Society (Native/Tribal Colleges)
- Broad MSI Community: Feb. 2020

https://msi-cise.asee.org/
CISE-MSI PROGRAM

- Minority-Serving Institutions Research Expansion Program (CISE-MSI Program) (NSF 22-518)
  - Deadline: Second Friday in February, Annually
- **Goal:** to provide an opportunity for those MSIs not (yet) in the CISE Core and/or participating program to lead a CISE MSI project
- **Faculty:** Capacity Building and Proposal-writing workshops ("Mini-Labs")
- **Infrastructure:** Collaborative Multi-MSI opportunities
- **Undergrad and Graduate Students:** Enhanced research opportunities


FY21 Awardees

Threads

Thread 1: Research Capacity Building Planning Projects (RCBPP)
- Up to $400,000; Up to 2 years

Thread 2: Demonstration Projects (DP)
- Up to $600,000; Up to 3 years

Thread 3: Research Partnerships Enhancement Projects (RPEP)
- Up to $1,200,000; Up to 4 years

Program Reach

- HSIs - 12
- HBCU's - 12
- Tribal Colleges – 1
BPC DEMONSTRATION PROJECTS

• Pilots of small-scale interventions to BPC
  • Could grow into an alliance or be incorporated in an alliance
  • Not for travel grants or fellowship programs
• Strong evaluation and assessment components
• Contribute evidence-based findings to the body of knowledge on teaching diverse student populations
• Award: Up to $300k total for up to 2 years
• Refer to the BPC Solicitation (NSF 21-571) for more information
COMPUTING IN UNDERGRADUATE EDUCATION (CUE): REVISIONING BROADENING PARTICIPATION PATHWAYS

• Transformation
  • Addressing key challenges in undergraduate education (CS+X, updating courses, holistic degree support, inclusive online teaching)

• Pathways
  • Effective pathways involving 2-year colleges (entry points, transitions)

• Mobilize
  • Developing a national vision through convening the CISE community

• Refer to the IUSE: CUE Solicitation (NSF 22-588) for more information

Proposals due: September 19, 2022
Contact: iuse-cue@nsf.gov
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LIGHTNING TALKS
GROUP 2

(MAX 5 MINUTES EACH)
New Mexico Tech
Norfolk State University
North Carolina A&T
Northeastern Illinois University
Roosevelt University
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BREAK
(5 MINUTES)
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Comments from R1 MSI
Universities

Jason Liu, Florida International University
Marios Papaefthymiou, University of California, Irvine
Tevik Bultan, University of California, Santa Barbara
Robert Sloan, University of Illinois, Chicago
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Texas Southern University
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