2021 CISE
BROADENING PARTICIPATION IN COMPUTING (BPC) SOLICITATION WEBINAR

Presented by CISE Education and Workforce Program Officers:
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**MOTIVATION:**
TO INCREASE NUMBER AND DIVERSITY OF DOMESTIC STUDENTS RECEIVING POST-SECONDARY DEGREES IN COMPUTING

Groups who are underrepresentation in CISE:

- **Women**
- **Blacks and African Americans**
- **Hispanics**
- **American Indians and Alaska Natives**
- **Native Hawaiians and Pacific Islanders**
- **Persons with disabilities**
MOTIVATION:
TO INCREASE NUMBER AND DIVERSITY OF DOMESTIC STUDENTS RECEIVING POST-SECONDARY DEGREES IN COMPUTING
OVERALL GOAL OF THE BPC PROGRAM

• Develop, implement and evaluate innovative models, frameworks, and strategies for the inclusion of groups that are underrepresented from K-12 through the computing workforce
  • Transformational efforts
  • Inclusive organizational structures and practices
ALL BPC PROPOSALS SHOULD HAVE POTENTIAL FOR NATIONAL IMPACT

- Develop an effective practice that could be widely deployed
- Deploy existing effective practices to reach larger audiences
- Activities should have significant impact both in the quality of opportunities afforded to participants and in the number of participants potentially served
- Focus is on the implementation of programs, but BPC projects may include complementary, focused research
# Overview of Funding Categories

<table>
<thead>
<tr>
<th>Category</th>
<th>Max amount</th>
<th>Duration</th>
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</thead>
<tbody>
<tr>
<td>New Alliances</td>
<td>$750K/year</td>
<td>Up to 3 years</td>
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<tr>
<td>Alliance Extensions</td>
<td>$1.2M/year</td>
<td>Up to 5 years</td>
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<tr>
<td>Demonstration Projects</td>
<td>$300K total</td>
<td>Up to 2 years</td>
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<tr>
<td>Supplements</td>
<td>&lt; 20% of original award amount; &lt; $200,000 total</td>
<td>Duration of existing CISE research award</td>
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ALLIANCES
Collectively, alliances serve as:

**Testbeds:**
Develop, deploy, and evaluate interventions

**National Resources:**
Collect, vet, and disseminate best and promising practices

**A locus:**
Serve academic computing community as network of peer alliances
KEY COMPONENTS OF ALLIANCE PROPOSALS

Project Goals & Outcomes
- Clearly demonstrate successful recruitment and retention strategies

Implementation Plan
- Potential for alignment with existing activities
- Describe creative, strategic actions for broadening participation
- Strong research base
- Dissemination plan
KEY COMPONENTS OF ALLIANCE PROPOSALS

Partnership Plan

• Evidence of collaboration, commitment to goals, experience in addressing underrepresentation, and commitment to sustainability

Evaluation Plan

• Describe instruments/metrics that will guide the project’s progress and impact
KEY COMPONENTS OF ALLIANCE PROPOSALS

Sustainability Plan

• Mechanisms to further work through collaborations or outside funders

Management Plan

• Details the organizational structures, mechanisms for communication, and responsibilities of PIs, co-PIs, and Senior Personnel.
EXISTING ALLIANCES

CAHSI
Computing Alliance of Hispanic-Serving Institutions
A National INCLUDES Alliance

Access Computing

Institute for African-American Mentoring in Computing Sciences

National Center for Women & Information Technology

ECEP
Expanding Computing Education Pathways

CRA-WP
Computing Research Association
Widening Participation

REAL-CS
Researching Equity, Access, & Learning in CS Education

STARS
ComputingCorps.org
ADDITIONAL REQUIREMENTS FOR ALLIANCE EXTENSIONS

Project Goals and Outcomes

- Extent of alliance, scope, degree of impact and effectiveness
- Collaborations, alliance partnerships, outside financial support
- Contributions to larger BP community
- Stability of infrastructure/ organizational structure
DEMONSTRATION PROJECTS
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
- Project goals and outcomes, Implementation plan, and Evaluation Plan
- Contribute evidence-based findings to the body of knowledge on teaching diverse student populations
SUPPLEMENTS
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• Only for existing BPC plans as part of a CISE Core Medium or Large award.

• Supplements should either:
  
  • **Extend the reach** of current BPC activities that have some evidence of effectiveness to more participants or institutions; or
  
  • **Coordinate** or **institutionalize** BPC activities within a department or similar unit.
• Full BPC Solicitation (NSF 21-571):  
• Alliance/Demonstration Project proposal due date: June 14, 2021
• Supplement proposals due date:
  • Contact cognizant Program Director(s) and the BPC team at cise-bpc@nsf.gov by May 17, 2021
QUESTIONS