

Curriculum Improvement Partnership Award for the Integration of Research (CIPAIR)

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**Sub Contract Cooperative Agreement:
Administered by United Negro College Fund Special Programs Corporation (UNCFSP)**

I. PROJECT DESCRIPTION AND GOALS

The primary goal of CIPAIR is to help two-year and four-year Minority Institutions (MIs) strengthen their curricula in order to attract more students into STEM-based academic programs, retain them, and prepare them for success when they take the next steps in their education or in their careers. The strategy for achieving improvements in curriculum and in student-learning outcomes is built upon four elements:

1. Establishment or strengthening of relationships of MI faculty with NASA Centers;
2. Integration of NASA-related content and research opportunities into the MI curriculum;
3. Involvement of students in curriculum development and improvement; and
4. Commitment of the MI administration to long-term sustainability.

In 2009, 4 awards were given to minority serving institutions (total of 7 institutions including their partners) comprising Cohort #1 (See Figure 1 and Table 1 and Table 2 on Page 3). The FY 2009 awardees are expected to achieve the following outcomes during the 3-year life cycle of their projects, 2010-2012:

- 3 New and 35 Revised/Infused STEM Courses Offered
Courses aligned with NASA interest and content offered such the University of Texas at San Antonio new course entitled “Earth Observation and Technology” (A total of 36 students are expected to enroll in the course each semester)
This outcome addresses APG 10ED1: Number (#) of new or revised courses targeted at the STEM skills needed by NASA that are developed with NASA support.
- 811 Students Instructed
This outcome addresses APG 10ED3: Number (#) of under-represented and underserved students participating in NASA higher education program).

In 2010, 9 awards were given to minority serving institutions (total of 16 institutions including their partners) comprising Cohort #2 (See Figure 1 and Table 1 and Table 2 on Page 3). The FY 2010 awardees are expected to achieve the following outcomes during the 3-year life cycle of their projects, 2011-2013:

- 7 New and 112 Revised/Infused STEM Courses Offered
Courses aligned with NASA interest and content offered such as Virginia State University course entitled “Computer Gaming” (A total of 30 students are expected to enroll in the course each semester)
 - 1,700 Students Instructed
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**CIPAIR
FY2009 (Cohort #1) & FY2010 (Cohort #2) Geographical Dispersion**

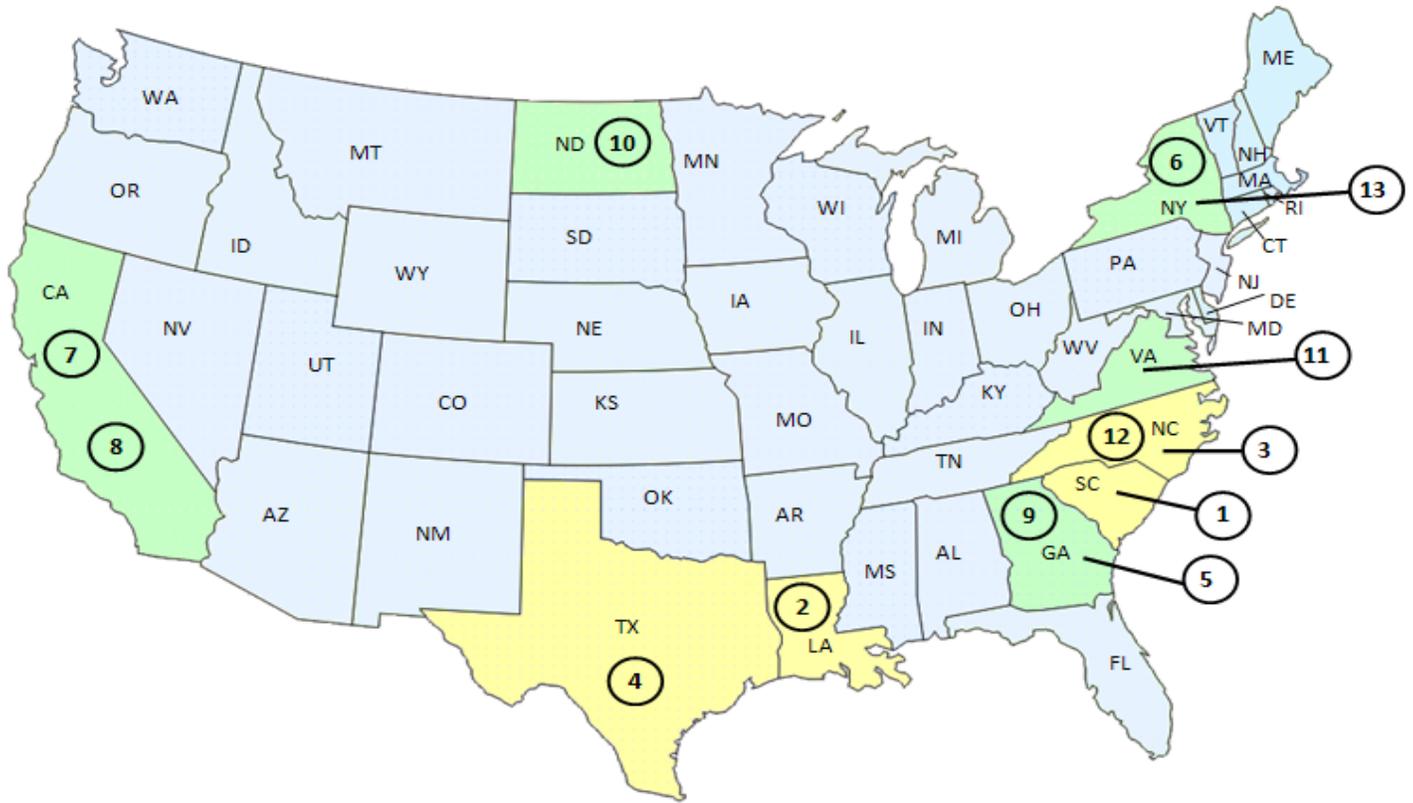


Figure 1: Yellow States = CIPAIR Cohort #1 Institutions Green States = CIPAIR Cohort #2 Institutions

Table 1: CIPAIR FY2009 (Cohort #1) Institutions	
1	Claflin University –HBCU (Orangeburg, SC) & Orangeburg-Calhoun Technical College–OMI, (Orangeburg, SC)
2	Grambling State University-HBCU (Grambling, LA) & Southern University at Shreveport-HBCU, (Shreveport, LA)
3	Robeson Community College –OMI (Lumberton, NC)
4	University of Texas at San Antonio –HSI (San Antonio, TX) & San Antonio College–HSI (San Antonio, TX)

Table 2: CIPAIR FY2010 (Cohort #2) Institutions	
5	Atlanta Metropolitan College –HBCU (Atlanta, GA)
6	New York City College of Technology – HSI (Brooklyn, NY) & Hostos Community College –HSI (Bronx, NY)
7	San Mateo Community College –HSI (San Francisco, CA)& Canada College HSI –(Redwood City, CA)
8	Santa Monica Community College –HSI (Santa Monica, CA) & University of California-Los Angeles –HSI (LA)
9	Spelman College –HBCU (Atlanta, GA) & Gadsen Community College –HBCU (Gadsen, AL)
10	United Tribes Technical College –TCI (Bismarck, ND)
11	Virginia State University – HBCU (Petersburg, VA) & Louisburg Community College–OMI, (Louisburg, NC)
12	Fayetteville State University –HBCU (Fayetteville, NC)& Southeastern Community College –HBCU, (Whiteville, NC)
13	LaGuardia Community College –HSI (Long Island, NY) & Medgar Evers College –HBCU (Brooklyn, NY)

II. PROJECT ACCOMPLISHMENTS IN 2010

During 2010 the following accomplishments are noted:

- Expansion of the CIPAIR Project to include 23 Minority Institutions (MIs) that have obtained little or no prior NASA funding;
- Inclusion of 10 HBCU; 9 HSI; 1 TCI; and 3 OMI in the program;
- Representation of 12 two-year institutions (52% of total CIPAIR MIs);
- Conducted Orientation and Project Management Boot Camp for 2009 Principal Investigators (PIs); Co-Investigators (Co-Is), and Office of Sponsored Research/Grants Administration personnel;
- Increased exposure of the CIPAIR Project through press releases, conference presentations, and linkages with other NASA Programs;
- Dissemination of CIPAIR project information to potential institutions via information sessions at universities and/or STEM-related conferences, video conferences and web-cast meetings, internet postings, and mass mailings.

II. MAJOR CIPAIR 2010 SOLICITATION TIMELINE

The CIPAIR 2010 NRA, Number NNH10ZNE007N was released on May 13, 2010. The proposals were due on June 28, 2010. Other major milestones are listed in Table 1.

Table 1: CIPAIR Solicitation Major Milestones & Procurement Announcements	
Date	Milestone
April 19-May 6, 2010	4 Regional Pre-Solicitation Technical Workshops Offered
May 13, 2010	Solicitation Released
May 20, 2010	Notice of Intent (NOI) Due
June 28, 2010	Proposal Due Date
July 6-14, 2010	On-line Peer Reviews
July 20-22, 2010	Expert Panel Consensus Meeting, Washington, DC (2.5 Days)
August 16-20, 2010	NASA Executive Review Meeting/Panel Debrief
September 21, 2010	Selection Announcement/Congressional Advance/Press Release

III. REGIONAL PRE-SOLICITATION TECHNICAL WORKSHOPS

Dr. Lenell Allen, JPL CIPAIR Project Manager and Mr. Clarence Brown, Manager, Division of Science and Technology Programs with the United Negro College Fund Special Programs (UNCF-SP) conducted a total of four CIPAIR Regional Technical Workshops. Fifty-two individuals representing 33 institutions and 15 US states participated in the workshops. The workshops dates and locations were as follows:

Table 2: CIPAIR Regional Pre-Solicitation Technical Workshops	
Date	Location
April 19, 2010	Shaw University (Raleigh, North Carolina)
April 22, 2010	NASA Ames Research Center (San Jose, California)
April 28, 2010	Atlanta Metropolitan Community College (Atlanta, Georgia)
May 6, 2010	Homewood Suites Hotel (Fargo, North Dakota)

IV. Notice of Intent to Propose (NOI)

A total of 35 Notice of Intent (NOIs) representing 17 US states were submitted by the May 20th deadline. Of the 35 institutions that submitted NOIs, 19 (54%) participated in the CIPAIR Regional Technical Workshops. As noted in Figure 1 below, 17 (48%) of the NOI institutions were HBCUs. Moreover, a total of 11 or (31%) of the NOI institutions were community colleges or 2-year institutions.

Figure 1: CIPAIR 2010 Notice of Intent to Propose (NOI) Institutions

