

# Louis Stokes Alliances for Minority Participation (LSAMP) Program



# Program History

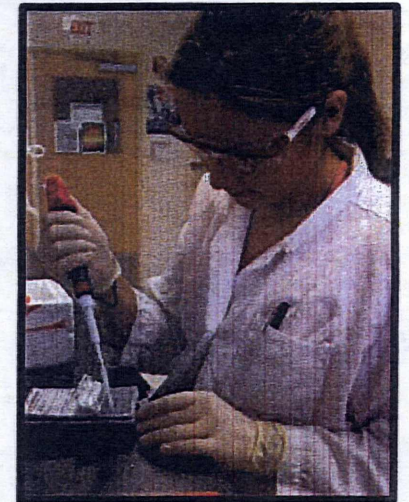
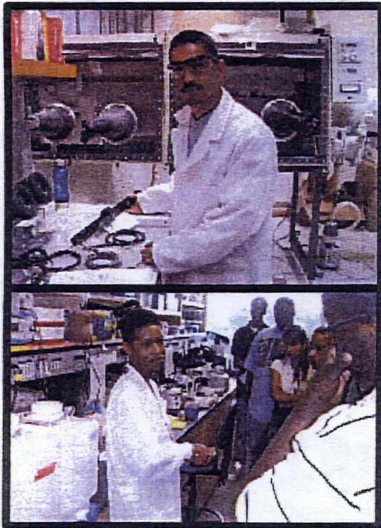
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- Originally named Alliances for Minority Participation (AMP), the program was established in response to H.R. 6104.
- In 1999, the program was renamed the Louis Stokes Alliances for Minority Participation (LSAMP) in honor of Congressman Louis Stokes of Ohio.

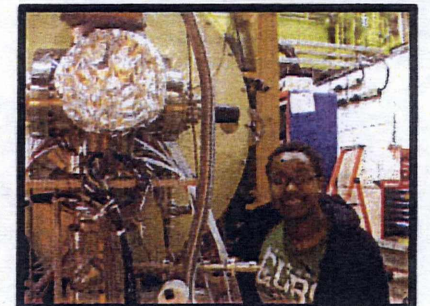


# Program History, Continued

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LSAMP was designed to “develop strategies to increase the quality and quantity of minority students who successfully complete baccalaureate degrees in STEM, and who continue on to graduate studies in these fields.”



# LSAMP Program Elements

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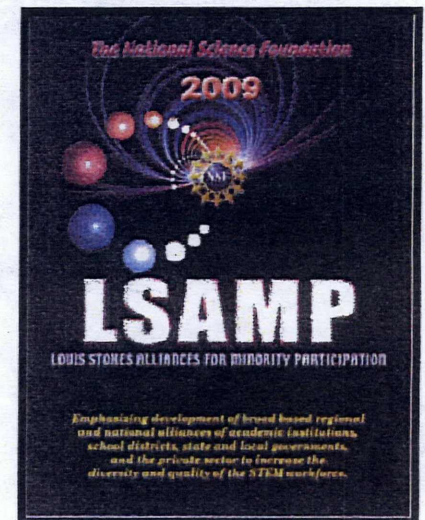
- The LSAMP program focuses on academic, social, and professionalization integration experiences.
- Scholars across educational levels meet at workshops, symposia, and national conferences to present research findings and build professional networks.



# LSAMP – Alliance Structure

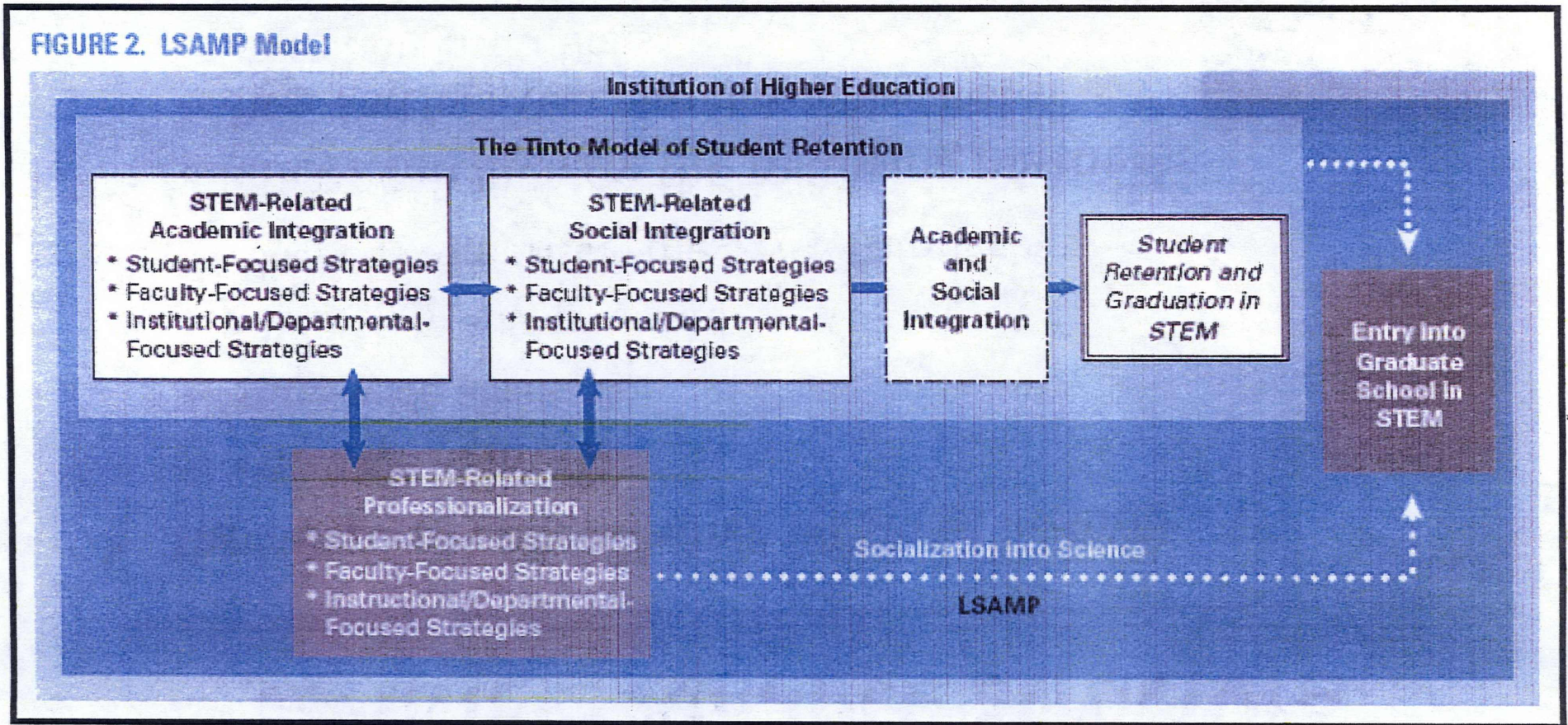
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- The range of collaborative alliances include:
  - City-wide networks;
  - State-wide alliances;
  - Multi-state alliances; and
  - Alliances comprising the U.S. territories.
- Alliances can include the following partners:
  - Two- and four-year degree-granting higher education institutions;
  - Business and industry;
  - National and international research laboratories; and
  - Local, state, and federal agencies.

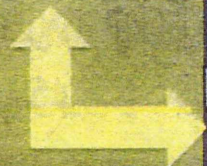


# LSAMP Model

FIGURE 2. LSAMP Model



# Elements of the LSAMP Model

ELEMENTS OF THE LSAMP MODEL					
PRE-BACCALAUREATE	BACCALAUREATE*			POST BACCALAUREATE	
	Focus/Activity	Stem Academic Integration	STEM Social Integration	STEM Professionalization	Bridge to the Doctorate
 Middle & High School Activities	<b>Student</b>				
	Summer Bridge	✓	✓		•Fellowship 24 Months Duration
	Scholarship/Stipend	✓			•Graduate Coursework
	Peer Study Group	✓	✓		•Skill Building
	Skills-Building Seminar	✓	✓		•Research Planning/Initiation
	Learning Centers	✓	✓		•Mentorship
	Academic Advising	✓			•Teamsmanship
	Summer Academic Enrichment	✓			•Conferences: Scientific & Professional
	Tutoring	✓			•Career Awareness & Professional Development
	Research Experience	✓	✓	✓	•Ethics: Scientific and Professional
	Mentorships	✓	✓	✓	•Other: (International, etc.)
	Conferences	✓		✓	
	Internships: Domestic/Intl.	✓	✓	✓	
	Career Awareness			✓	
	GRE Test Preparation	✓		✓	
	Graduate School Admissions Support			✓	
	Graduate Summer Bridge	✓	✓	✓	
	<b>Faculty</b>				
	Workshop on Teaching	✓			
	Diversity Sensitivity Training	✓	✓		
Faculty Research Program	✓				
<b>Institutional/Departmental</b>					
New Course Development	✓				
Curriculum Material Sharing	✓				
Distance Learning Courses	✓				
Changes in Institutional/Departmental Policies and Practices; 2 yr – 4 yr College Transition Agreements	✓	✓	✓		
•Summer Bridge					
•High School Outreach					
•Career Awareness					

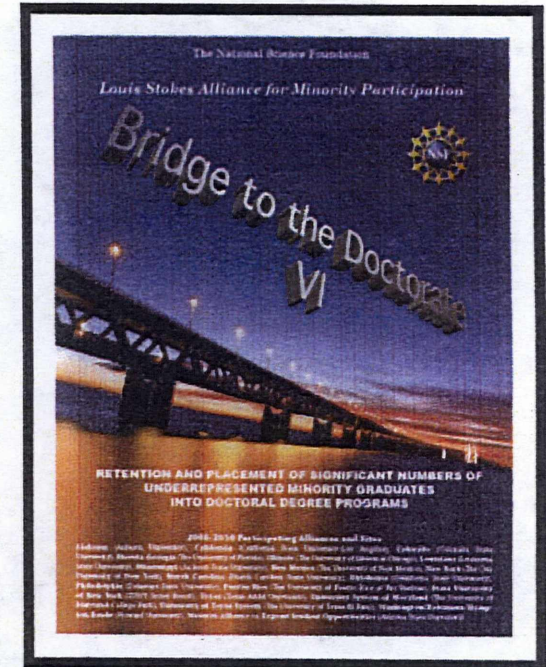
\*Clewell, B.C., Clemencia Cosentino de Cohen, Lisa Tsui and Nicole Deterding. 2006. Revitalizing the Nation's Talent Pool in STEM. Urban Institute. Washington, DC. 25 pp. Dissemination Report. <http://www.urban.org/url.cfm?ID=311299>

# Bridge to the Doctorate (LSAMP-BD)

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Goals of the LSAMP-BD Activity are to:

- Increase the number of underrepresented minority (URM) students with baccalaureate degrees in STEM fields who enter graduate programs;
- Increase the number of URMs who complete graduate degrees in a STEM field; and
- Increase the number of URMs with STEM graduate degrees who enter the STEM workforce.





# LSAMP Results\*

## STEM Bachelor's Degree Report: Discipline by Race/Ethnicity

Discipline	Black or African American	Hispanic or Latino	Native American	Native Hawaiian or Pacific Islander	More Than One Race Reported - Minority	Total
Agricultural Science	460	712	102	42	39	1,355
Chemistry	718	847	76	19	69	1,729
Computer Science	1,594	1,717	147	58	71	3,587
Engineering	2,980	5,037	436	111	194	8,758
Geosciences	117	177	31	10	20	355
Life/Biological Sciences	4,859	6,428	573	182	275	12,317
Mathematics	573	816	86	19	53	1,547
Physics/Astronomy	541	276	35	43	22	917
Environmental Science	75	271	53	14	25	438
<b>Total</b>	<b>11,917</b>	<b>16,281</b>	<b>1,539</b>	<b>498</b>	<b>768</b>	<b>31,003</b>

\*Data from 2011.

# LSAMP Results\*

## STEM Bachelor's Degree Report: Gender by Race/Ethnicity

Gender	Black or African American	Hispanic or Latino	Native American *	Native Hawaiian or Pacific Islander	More Than One Race Reported - Minority **	Total
Male	5,765	9,191	859	281	442	16,538
Female	5,895	6,887	672	208	324	13,986
Not Reported or Unknown	257	203	8	9	2	479
<b>Total</b>	<b>11,917</b>	<b>16,281</b>	<b>1,539</b>	<b>498</b>	<b>768</b>	<b>31,003</b>

\*Data from 2011.

# LSAMP Results\*

## STEM Fulltime Enrollment Report: Discipline by Race/Ethnicity

Discipline	Black or African American	Hispanic or Latino	Native American	Native Hawaiian or Pacific Islander	More Than One Race Reported - Minority	Total
Agricultural Science	2,704	3,698	634	180	324	7,540
Chemistry	6,403	6,567	410	110	327	13,817
Computer Science	11,219	11,006	985	319	648	24,177
Engineering	23,782	37,465	2,430	534	2,117	66,328
Geosciences	549	1,213	140	28	75	2,005
Life/Biological Sciences	40,332	47,676	3,340	1,032	2,315	94,695
Mathematics	4,988	5,728	343	106	306	11,471
Physics/Astronomy	1,476	3,537	348	47	122	5,530
Environmental Science	679	1,659	530	82	134	3,084
<b>Total</b>	<b>92,132</b>	<b>118,549</b>	<b>9,160</b>	<b>2,438</b>	<b>6,368</b>	<b>228,647</b>

\*Data from 2011.

# LSAMP Results\*

## STEM Fulltime Enrollment Report: Gender by Race/Ethnicity

Gender	Black or African American	Hispanic or Latino	Native American *	Native Hawaiian or Pacific Islander	More Than One Race Reported - Minority **	Total
Male	45,848	67,152	4,948	1,323	3,594	122,865
Female	46,145	51,322	4,179	1,108	2,772	105,526
Not Reported or Unknown	139	75	33	7	2	256
Total	92,132	118,549	9,160	2,438	6,368	228,647

\*Data from 2011.