



The National Science Foundation

Alabama Louis Stokes Alliance for Minority Participation



I M P A C T

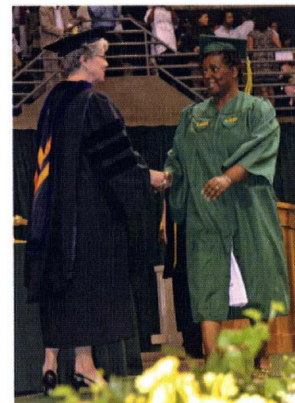
The Alabama Alliance is composed of twelve institutions consisting of seven Historically Black Colleges and Universities (HBCU's) and five majority institutions. The HBCU's are: Alabama A&M University; Alabama State University; Miles College; Oakwood University; Stillman College; Talladega College and Tuskegee University. The majority institutions are: The University of Alabama at Birmingham (UAB); Auburn University; The University of Alabama (UA); The University of Alabama in Huntsville (UAH) and The University of South Alabama (USA). The institutions represent public and private, large and small, teaching and research colleges and universities. Each partner institution has a principal investigator and a management committee to implement program activities on that particular campus. The goals of the alliance are to increase the quantity and quality of underrepresented minorities earning baccalaureate degrees in science, technology, engineering and mathematics (STEM) entering into graduate programs.

Highlights that address goals in the NSF Strategic Plan - Discovery, Learning, and/or Research Infrastructure for the period of March 1, 2008 - March 1, 2009.

Learning Activities

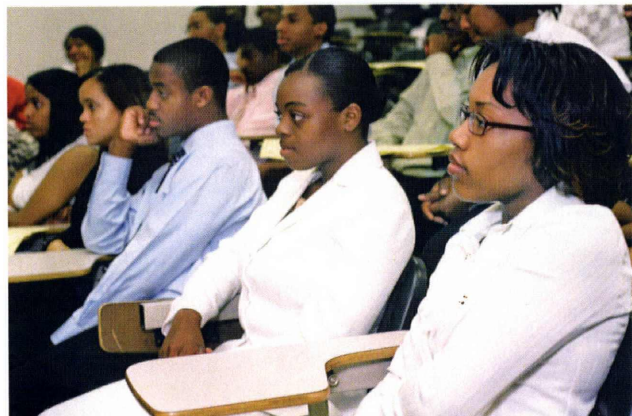
STEM Enrollment and Degrees Awarded

- ALSAMP institutions enrolled **6,096** underrepresented minority STEM students for the 2008-09 fall semester.
- During the May/June 2008 graduation ceremonies, **939** undergraduate STEM degrees were awarded to underrepresented minorities in Alabama, an increase of **108** over the previous year. The increase is due to the steady increase in enrollment over the last six years.



Summer Bridge Program

The ALSAMP Summer Bridge Program is designed to facilitate the transition of high school graduates from high school to college. Participants take regular college courses, attend seminars, receive career counseling and develop a research project.



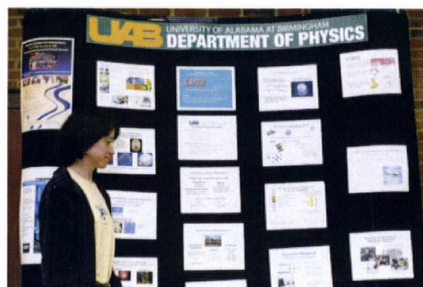
The program provides a pool of students from which the ALSAMP program may draw for its activities and addresses one of the transition points along the education pipeline.

ALSAMP Scholars Program

During the 2008 fall semester, ninety-eight high ability freshman students were recruited into the ALSAMP Scholars Program, a student support program designed to prepare STEM students for graduate school. These students receive financial support for four years and must maintain at minimum a 3.0 GPA. They serve as role models for their peers and help to recruit students to their institutions. In addition to their regular undergraduate training, ALSAMP Scholars also receive research experience in an internship program – which greatly increases the likelihood that these students will be successful in graduate programs.

Graduate School Fair

The Eleventh Annual ALSAMP Graduate School Fair was held on the campus of UAB on October 6, 2008. The fair featured presentations by eight ALSAMP institution graduate program directors and exhibitors representing sixty-five graduate programs.



The fair registered 176 STEM students at the junior and senior levels from partner institutions. The students attended breakout sessions on the *GRE*, *Admission Requirements*, *Selecting the Right Graduate School* and *Mentoring and Advising*.

Research and Discovery

Summer Internship Program/Research Conferences

Fifteen STEM students were selected from ALSAMP institutions to participate in the ALSAMP Summer Internship/Research Program. The program is designed to provide research experiences for undergraduate students. Participants work with an assigned research mentor in a laboratory setting on an on-going research project. At the program's concluding ALSAMP Summer Research Conference, students make formal presentations about the results of their research.



In addition, participants enroll both in a regular college course for credit and in a special non-credit course on GRE preparation, as well as attend weekly seminars.

Spring Research Conferences



One hundred seven ALSAMP students and forty-four faculty and staff attended the Annual Spring Research Conference for ALSAMP Scholars and Bridge to the Doctorate Fellows April 6-7, 2008, in Huntsville, Alabama. The conference included guest speakers, breakout sessions addressing topics of interest to prospective graduate students, STEM poster competitions and research presentations in: biology; chemistry; computer science; engineering; life science; mathematics and physics. Concluding student evaluations rated the event as most beneficial with requests for more such research and networking opportunities.

Minority Access Research Conference

UAB ALSAMP student Lucy Kehinde was the first place winner and the recipient of \$1,000.00 in the Minority Access, Inc. National Role Model and Student Researcher Conference. Minority Access, Inc. is a non-profit educational organization that supports individuals, academic institutions, federal, state and local government agencies and various corporations to diversify campuses and worksites through improving the recruitment, retention and enhancement of minorities. The Annual Role Model and Student Research Conference is an opportunity to focus the national spotlight on institutions and individuals that have excelled in producing and supporting minority researchers. Honored at the Minority Access Ninth National Role Models Conference, held in Arlington, Virginia, September 26 -29, 2008, was Dr. A. James Hicks, Program Director for the National Science Foundation's Louis Stokes Alliance for Minority Participation Program. Dr. Hicks was the recipient of the 2008 Innovator Role Model Award.



Student Mentoring Program

For the 2008-2009 academic year, ALSAMP students at UAB have been assigned both a faculty and student mentor. The mentors provide academic support and guidance regarding the student's achievements and challenges and serve as the student's advocate. Confidentiality and openness permeate the relationship. Mentors meet/communicate weekly with their students and provide them with opportunities to become better prepared for graduate school. In addition, mentors attend the ALSAMP Summer Research Conference to observe and show support for their student as they report on their research projects.

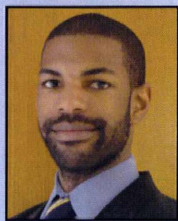
★ ★ ★ ★ ★ ★ ★ ★ ★ ★
Alabama Bridge to the Doctorate Cohort VI
 ★ ★ ★ ★ ★ ★ ★ ★ ★ ★
Auburn University
2008-2010 Bridge to the Doctorate Site

Auburn University is a comprehensive land, space, and sea grant research institution blending arts and applied sciences. It has a long tradition of academic excellence and graduate education, awarding its first undergraduate degree in 1860 and its first graduate degree in 1870. The main campus had an enrollment during fall of 2007 of 24,137. Auburn University offers degrees in 13 schools and colleges at the undergraduate, graduate and professional levels. More than 1,100 graduate faculty members have terminal degrees from 150 universities. More than 90 buildings occupy a campus of Southern charm graced with stately trees and abundant flowers. Auburn University has developed into one of the largest universities in the South, remaining in the educational forefront with its traditional blend of arts and applied science, and changing with the needs of today while living with a respect for the traditions and spirit that are Auburn.



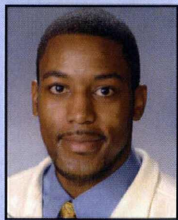
Curtis Cain

B.S., Information Systems Engineering, Johnson C. Smith University, 2008, Graduate Major: Computer Science and Software Engineering - *"To pursue a career in software engineering and to show to minorities that a doctoral degree is not elusive and can be obtained."*



Jarrett Chapman

B.S., Industrial and Systems Engineering, North Carolina A & T State University, 2005, Graduate Major: Industrial and Systems Engineering - *"I would like to pursue a career in both industry and eventually teaching."*



Michael Grady

B.S., Electrical Engineering, Auburn University, 2008, Graduate Major: Electrical Engineering - *"To expand the research filed of electromagnetics with a career in teaching and research."*



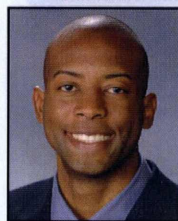
Lenese Grant

B.S., Food Science & Technology, Alabama A & M University, 2008, Graduate Major: Nutrition and Food Science - *"I aspire to pursue a career in academia helping students mature professionally and academically."*



Brittany Green

B.S., Mathematics, Birmingham-Southern College, 2008, Graduate Major: Industrial and Systems Engineering - *"I plan to become a college professor in order to further the excitement and importance of Industrial Engineering."*



Colby Hunter

B.S., Biology, New Mexico State University, 2008, Graduate Major: Microbiology - *"My ambition is to perform research on infectious diseases at the CDC. I also would like to inspire young people to take an interest in science."*



David Laurencio

B.S., Wildlife and Fisheries Sciences, Texas A & M University, 2001, Graduate Major: Biological Sciences - *"I plan to acquire a position at the collegiate level where I can teach and mentor our next generation of biologists, as well as continue my research."*



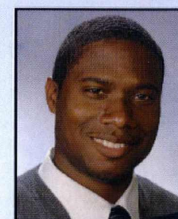
Cheryl Milton

B.S., Mathematics, Florida A & M University, 2008, Graduate Major: Mathematics - *"I plan to become a researcher in the area of computational science and teach at the collegiate level."*



James Morris-King

B.S., Computer Science, Rensselaer Polytechnic Institute, 2008, Graduate Major: Computer Science - *"I plan to obtain a PhD in the computer science specializing in research related to artificial intelligence."*



Cadavious Jones

B.S., Mathematics, Alabama State University, 2006, Graduate Major: Mathematics - *"I plan to teach at the collegiate level to expand the minds of young people in my community as well as starting my finance company."*



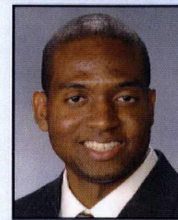
Timmy Sanders

B.S., Mathematics, Alabama State University, 2008, Graduate Major: Mathematics - *"To obtain a terminal degree and pursue a career in mathematics & statistics."*



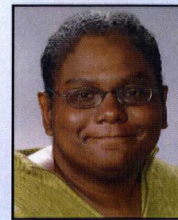
Derek Simon

B.S., Mathematics, Alabama State University, 2003, Graduate Major: Mathematics - *"To further increase my knowledge and love for research in the area of mathematics."*



Kevin Simmons

B.S., Computer Science, Alabama A & M University, 2008, Graduate Major: Computer Science - *"To conduct research after my obtainment of a PhD with NASA or the Redstone Arsenal."*



Clarisa Williams

B.S., Mathematics, California State University - Dominguez Hills, 1999, Graduate Major: Statistics - *"I plan to pursue a career in industry researching cancer either as a bio-statistician or by modeling cancer patterns."*

Alabama LSAMP Bridge to the Doctorate Program Summary

Cohort	I	II	III	IV	V	Total
Students completed, entered or plan to enter Ph.D. Programs	6	7	8	9	9	39
Students in the workforce or still in school	4	6	5	3	3	21
Total	10	13	13	12	12	60